

AEC Q200 Summary of Test Results

Supplier: Murata

Submission Date: July / 2027

Part Name:

GCM32ER71E106KA57

Series description:

GCM / 1210 / X7R Series

Murata P/N: GCM32ER71E106KA57**Part Series GCM / 1210 / X7R Series****Operating Temperature: -55°C ~ +125°C**

Test Item	Test Conditions	No of Lots	Qty per Lot	No of Failure
#3 - High Temperature Exposure	1000hr , 150deg C	3	77	0
#4 - Temperature Cycling	1000cycles , -55deg C to 125deg C	3	77	0
#5 - Destructive Physical Analysis		1	10	0
#6 - Moisture Resistance	10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH	3	77	0
#7 - Humidity Bias (I)	1000hr , 85deg C / 85% RH , 1WV	3	77	0
#7 - Humidity Bias (II)	1000hr , 85deg C / 85% RH , 1.3V	3	77	0
#8 - High Temperature Operating Life	1000hr , 125deg C , 2WV	3	77	0
#9 - External Visual		all qualification parts		0
#10 - Physical Dimensions		1	30	0
#12 Resistance to solvents	Test conditions A : 1 part (by volume) of isopropyl alcohol and 3 parts (by volume) of mineral sperits , 25deg C 3min immersion test conditions B : terpene defluxer, 25deg C 3min immersion test conditions C : 42 parts(by volume) of water and 1 part (by volume) of propylene glycol monomethylether and 1 part (by volume) of monoethanolamine, 63-70deg C 3min immersion	1	5	0
#13 - Mechanical Shock	shock pulse : 1500g's, 0.5ms, 4.7m/s, 3 times each of 6 orientations	3	30	0
#14 - Vibration	5g's for 20min, 12 cycles each of 3 orientations, test frequency 10 - 2000Hz	3	30	0
#15 - Resistance to Soldering Heat	soldering , 260deg C, 10sec, immersion	1	30	0
#17 - ESD Test	charge capacitor 150pF, discharge resistor 2000ohm	1	15	0
#18 - Solderability	(a) Preheat at 155°C for 4h. After preheating, immerse the capacitor in a solution of rosin ethanol 25(mass)%. Immerse in Sn-3.0Ag-0.5Cu solder solution at 245+/-5°C for 5+0/-0.5s.	1	15	0
#19 - Electrical Characterization	1.0+/-0.1kHz , 1.0+/-0.2Vrms	3	30	0
#21 - Board Flex	Force of 18N	1	30	0
#22 - Terminal Strength	Apply a force until the part brakes pass/fail criteria : More than 54.5N	1	30	0
#23 - Beam Load	Apply a force until the part brakes pass/fail criteria : More than 20N	1	30	0

AEC-Q200 Summary of Test Results

Murata P/N: GCM32ER71E106KA57											
Manufacturing Location: Philippine Manufacturing Co. of Murata				Lot No: A,B,C							
Date before test: 2023/9/16			Date after test: 2023/10/30								
#3 - High Temperature Exposure											
Test conditions : 1000hr , 150deg C											
No. of samples:	77			Initial readings		Final readings					
No. of lots:	3			Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %	
Spec limits	lower	9.00			5.0E+01			5.0E+01			-10.00
	upper	11.00			2.50			3.00			10.00
Measurement Statistics	mean	9.831			2.105			2.40E+02			9.793
	maximum	10.18			2.23			2.5E+02			10.14
	minimum	9.36			2.02			2.3E+02			9.32
	standard deviation	0.1396			0.0368			4.279E+00			0.1392
Test Data											
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %			
A	1	9.69	2.08	2.4E+02	9.65	2.13	2.4E+02	-0.43			
	2	9.36	2.02	2.4E+02	9.32	2.07	2.5E+02	-0.47			
	3	9.93	2.12	2.4E+02	9.88	2.16	2.4E+02	-0.51			
	4	9.84	2.09	2.4E+02	9.79	2.13	2.4E+02	-0.44			
	5	9.84	2.10	2.4E+02	9.81	2.13	2.4E+02	-0.39			
	6	9.91	2.12	2.4E+02	9.86	2.14	2.4E+02	-0.44			
	7	9.83	2.12	2.5E+02	9.78	2.14	2.4E+02	-0.47			
	8	9.61	2.02	2.4E+02	9.56	2.04	2.4E+02	-0.43			
	9	9.63	2.03	2.4E+02	9.59	2.05	2.4E+02	-0.43			
	10	9.73	2.07	2.4E+02	9.69	2.09	2.4E+02	-0.44			
	11	9.92	2.08	2.4E+02	9.88	2.10	2.4E+02	-0.44			
	12	9.81	2.09	2.4E+02	9.77	2.11	2.4E+02	-0.42			
	13	10.02	2.12	2.4E+02	9.98	2.15	2.4E+02	-0.42			
	14	10.08	2.14	2.4E+02	10.04	2.18	2.4E+02	-0.44			
	15	9.80	2.10	2.5E+02	9.77	2.13	2.4E+02	-0.39			
	16	9.79	2.06	2.4E+02	9.76	2.10	2.4E+02	-0.38			
	17	9.80	2.05	2.4E+02	9.76	2.10	2.3E+02	-0.40			
	18	9.68	2.06	2.4E+02	9.65	2.11	2.3E+02	-0.34			
	19	9.91	2.15	2.4E+02	9.87	2.19	2.4E+02	-0.42			
	20	9.99	2.12	2.3E+02	9.95	2.16	2.4E+02	-0.38			
	21	9.77	2.09	2.4E+02	9.74	2.16	2.4E+02	-0.34			
	22	10.05	2.15	2.4E+02	10.01	2.21	2.4E+02	-0.36			
	23	9.88	2.12	2.4E+02	9.84	2.18	2.4E+02	-0.38			
	24	10.10	2.17	2.4E+02	10.06	2.20	2.4E+02	-0.39			
	25	9.71	2.06	2.4E+02	9.68	2.08	2.4E+02	-0.37			
	26	9.77	2.07	2.4E+02	9.74	2.09	2.4E+02	-0.32			
	27	9.87	2.06	2.4E+02	9.84	2.09	2.4E+02	-0.33			
	28	10.09	2.13	2.4E+02	10.05	2.15	2.4E+02	-0.38			
	29	9.89	2.13	2.5E+02	9.85	2.14	2.4E+02	-0.40			
	30	10.07	2.16	2.4E+02	10.03	2.18	2.4E+02	-0.43			
	31	9.77	2.10	2.4E+02	9.73	2.13	2.4E+02	-0.41			
	32	9.82	2.07	2.4E+02	9.78	2.12	2.3E+02	-0.38			
	33	9.96	2.11	2.4E+02	9.92	2.17	2.4E+02	-0.37			
	34	10.04	2.18	2.5E+02	10.00	2.21	2.4E+02	-0.37			
	35	9.72	2.08	2.4E+02	9.69	2.09	2.3E+02	-0.31			
	36	10.06	2.15	2.4E+02	10.03	2.20	2.4E+02	-0.28			
	37	10.01	2.18	2.4E+02	9.96	2.21	2.5E+02	-0.46			
	38	9.73	2.06	2.3E+02	9.68	2.08	2.4E+02	-0.46			
	39	10.11	2.18	2.4E+02	10.06	2.21	2.4E+02	-0.45			
	40	9.69	2.07	2.4E+02	9.65	2.11	2.4E+02	-0.40			
	41	9.89	2.16	2.4E+02	9.84	2.23	2.4E+02	-0.46			
	42	9.76	2.12	2.4E+02	9.72	2.19	2.4E+02	-0.43			
	43	9.77	2.10	2.5E+02	9.73	2.14	2.4E+02	-0.37			
	44	10.11	2.18	2.4E+02	10.07	2.23	2.4E+02	-0.40			
	45	9.85	2.14	2.4E+02	9.81	2.19	2.4E+02	-0.39			
	46	9.82	2.10	2.4E+02	9.78	2.14	2.4E+02	-0.37			
	47	9.93	2.17	2.5E+02	9.86	2.21	2.5E+02	-0.45			
	48	10.04	2.18	2.5E+02	10.00	2.21	2.4E+02	-0.39			
	49	9.94	2.12	2.4E+02	9.89	2.18	2.4E+02	-0.44			
	50	9.73	2.08	2.4E+02	9.68	2.14	2.3E+02	-0.42			
	51	9.96	2.12	2.4E+02	9.92	2.19	2.4E+02	-0.34			
	52	9.90	2.14	2.4E+02	9.87	2.19	2.4E+02	-0.35			
	53	9.94	2.13	2.4E+02	9.91	2.19	2.3E+02	-0.32			
	54	9.66	2.05	2.4E+02	9.63	2.10	2.4E+02	-0.30			
	55	9.68	2.08	2.3E+02	9.64	2.13	2.4E+02	-0.39			
	56	9.89	2.13	2.4E+02	9.85	2.17	2.5E+02	-0.40			
	57	10.05	2.17	2.4E+02	10.00	2.18	2.4E+02	-0.41			
	58	9.96	2.14	2.4E+02	9.92	2.15	2.4E+02	-0.42			
	59	9.82	2.08	2.3E+02	9.78	2.09	2.3E+02	-0.39			
	60	9.98	2.19	2.4E+02	9.93	2.21	2.4E+02	-0.45			
	61	10.01	2.15	2.4E+02	9.96	2.17	2.4E+02	-0.52			
	62	9.90	2.11	2.4E+02	9.86	2.14	2.4E+02	-0.42			
	63	9.90	2.11	2.4E+02	9.86	2.12	2.4E+02	-0.40			
	64	9.80	2.14	2.5E+02	9.75	2.16	2.5E+02	-0.42			
	65	9.92	2.11	2.4E+02	9.87	2.12	2.4E+02	-0.43			
	66	9.87	2.18	2.5E+02	9.84	2.18	2.4E+02	-0.38			
	67	10.06	2.19	2.4E+02	10.02	2.22	2.4E+02	-0.42			
	68	10.15	2.20	2.4E+02	10.10	2.24	2.4E+02	-0.44			
	69	10.03	2.16	2.4E+02	9.99	2.17	2.4E+02	-0.41			
	70	9.67	2.08	2.4E+02	9.63	2.09	2.4E+02	-0.39			
	71	9.84	2.11	2.4E+02	9.81	2.14	2.4E+02	-0.30			
	72	9.85	2.06	2.4E+02	9.83	2.10	2.4E+02	-0.29			
	73	9.78	2.09	2.3E+02	9.74	2.13	2.3E+02	-0.42			
	74	10.07	2.19	2.3E+02	10.02	2.23	2.4E+02	-0.48			
	75	9.68	2.06	2.3E+02	9.64	2.12	2.3E+02	-0.36			
	76	10.12	2.17	2.4E+02	10.08	2.23	2.4E+02	-0.38			
	77	9.64	2.07	2.3E+02	9.60	2.13	2.4E+02	-0.35			

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/9/16				Lot No: A,B,C				
Date after test: 2023/10/30								
#3 - High Temperature Exposure								
<i>Test conditions : 1000hr , 150deg C</i>								
B	1	9.89	2.09	2.4E+02	9.85	2.12	2.4E+02	-0.42
	2	9.91	2.14	2.4E+02	9.86	2.16	2.4E+02	-0.45
	3	9.73	2.05	2.4E+02	9.69	2.08	2.4E+02	-0.45
	4	9.62	2.04	2.4E+02	9.58	2.07	2.4E+02	-0.45
	5	9.56	2.06	2.5E+02	9.52	2.09	2.5E+02	-0.44
	6	9.75	2.07	2.4E+02	9.70	2.10	2.4E+02	-0.50
	7	9.74	2.08	2.4E+02	9.69	2.10	2.4E+02	-0.48
	8	9.80	2.07	2.4E+02	9.75	2.10	2.4E+02	-0.48
	9	9.77	2.09	2.4E+02	9.73	2.16	2.4E+02	-0.45
	10	9.68	2.09	2.5E+02	9.64	2.15	2.5E+02	-0.45
	11	10.03	2.10	2.3E+02	9.98	2.15	2.4E+02	-0.48
	12	9.75	2.07	2.4E+02	9.71	2.11	2.4E+02	-0.44
	13	9.74	2.06	2.4E+02	9.69	2.12	2.4E+02	-0.47
	14	9.77	2.08	2.4E+02	9.74	2.13	2.4E+02	-0.40
	15	10.18	2.23	2.5E+02	10.14	2.26	2.5E+02	-0.43
	16	9.69	2.06	2.4E+02	9.65	2.11	2.4E+02	-0.38
	17	9.83	2.07	2.3E+02	9.79	2.15	2.3E+02	-0.36
	18	9.86	2.06	2.3E+02	9.83	2.14	2.3E+02	-0.31
	19	9.85	2.12	2.5E+02	9.82	2.15	2.5E+02	-0.29
	20	9.48	2.03	2.5E+02	9.45	2.08	2.5E+02	-0.32
	21	9.97	2.12	2.4E+02	9.94	2.15	2.4E+02	-0.30
	22	9.89	2.16	2.5E+02	9.86	2.20	2.6E+02	-0.25
	23	9.62	2.05	2.4E+02	9.61	2.10	2.4E+02	-0.17
	24	9.92	2.10	2.3E+02	9.90	2.16	2.3E+02	-0.17
	25	9.77	2.10	2.4E+02	9.75	2.17	2.4E+02	-0.15
	26	9.67	2.07	2.4E+02	9.65	2.12	2.4E+02	-0.22
	27	9.75	2.12	2.5E+02	9.73	2.16	2.5E+02	-0.21
	28	9.84	2.05	2.4E+02	9.81	2.09	2.4E+02	-0.28
	29	9.82	2.07	2.4E+02	9.79	2.10	2.3E+02	-0.27
	30	9.74	2.05	2.4E+02	9.72	2.09	2.4E+02	-0.25
	31	9.76	2.05	2.4E+02	9.73	2.10	2.4E+02	-0.27
	32	9.76	2.11	2.5E+02	9.73	2.17	2.5E+02	-0.23
	33	9.87	2.07	2.4E+02	9.84	2.12	2.3E+02	-0.23
	34	9.94	2.14	2.4E+02	9.91	2.25	2.4E+02	-0.27
	35	9.74	2.05	2.4E+02	9.71	2.18	2.4E+02	-0.26
	36	9.90	2.13	2.4E+02	9.88	2.23	2.4E+02	-0.21
	37	9.77	2.12	2.4E+02	9.73	2.17	2.4E+02	-0.44
	38	9.71	2.08	2.4E+02	9.67	2.11	2.4E+02	-0.42
	39	9.74	2.09	2.4E+02	9.70	2.13	2.4E+02	-0.45
	40	9.71	2.11	2.4E+02	9.66	2.13	2.4E+02	-0.50
	41	9.80	2.10	2.4E+02	9.75	2.15	2.4E+02	-0.51
	42	9.94	2.09	2.3E+02	9.89	2.13	2.4E+02	-0.52
	43	9.62	2.04	2.4E+02	9.57	2.08	2.4E+02	-0.53
	44	9.70	2.09	2.4E+02	9.65	2.12	2.4E+02	-0.53
	45	10.13	2.18	2.4E+02	10.07	2.22	2.4E+02	-0.59
	46	9.74	2.06	2.4E+02	9.69	2.10	2.4E+02	-0.53
	47	9.73	2.05	2.4E+02	9.68	2.10	2.4E+02	-0.54
	48	9.67	2.10	2.4E+02	9.62	2.14	2.4E+02	-0.56
	49	9.79	2.11	2.4E+02	9.73	2.16	2.4E+02	-0.54
	50	9.75	2.15	2.5E+02	9.70	2.19	2.5E+02	-0.55
	51	10.03	2.14	2.4E+02	9.98	2.18	2.4E+02	-0.55
	52	9.63	2.09	2.4E+02	9.58	2.14	2.4E+02	-0.50
	53	9.60	2.05	2.4E+02	9.56	2.13	2.4E+02	-0.46
	54	9.69	2.07	2.4E+02	9.66	2.12	2.4E+02	-0.36
	55	9.81	2.10	2.4E+02	9.77	2.15	2.4E+02	-0.40
	56	9.70	2.09	2.4E+02	9.66	2.14	2.4E+02	-0.41
	57	9.86	2.08	2.4E+02	9.82	2.14	2.4E+02	-0.40
	58	10.07	2.15	2.4E+02	10.02	2.23	2.4E+02	-0.48
	59	9.62	2.07	2.4E+02	9.58	2.16	2.4E+02	-0.40
	60	9.98	2.12	2.4E+02	9.94	2.19	2.4E+02	-0.44
	61	9.70	2.06	2.4E+02	9.66	2.10	2.4E+02	-0.43
	62	9.61	2.07	2.4E+02	9.57	2.11	2.4E+02	-0.36
	63	9.63	2.05	2.4E+02	9.59	2.09	2.4E+02	-0.39
	64	10.02	2.16	2.5E+02	9.97	2.20	2.4E+02	-0.44
	65	9.74	2.07	2.4E+02	9.70	2.11	2.4E+02	-0.37
	66	9.88	2.10	2.4E+02	9.84	2.14	2.4E+02	-0.39
	67	9.75	2.11	2.5E+02	9.72	2.19	2.5E+02	-0.37
	68	9.71	2.04	2.3E+02	9.68	2.17	2.3E+02	-0.37
	69	9.66	2.08	2.4E+02	9.63	2.27	2.4E+02	-0.35
	70	10.00	2.14	2.4E+02	9.97	2.24	2.4E+02	-0.36
	71	9.77	2.08	2.4E+02	9.74	2.15	2.4E+02	-0.31
	72	9.94	2.11	2.4E+02	9.92	2.18	2.4E+02	-0.18
	73	10.00	2.13	2.3E+02	9.95	2.15	2.3E+02	-0.48
	74	9.62	2.10	2.4E+02	9.57	2.12	2.4E+02	-0.48
	75	9.47	2.09	2.4E+02	9.42	2.11	2.4E+02	-0.46
	76	9.79	2.14	2.4E+02	9.74	2.18	2.4E+02	-0.51
	77	9.71	2.13	2.4E+02	9.66	2.17	2.4E+02	-0.51

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/9/16				Lot No: A,B,C				
Date after test: 2023/10/30								
#3 - High Temperature Exposure								
<i>Test conditions : 1000hr , 150deg C</i>								
C	1	9.73	2.12	2.4E+02	9.71	2.15	2.5E+02	-0.23
	2	9.97	2.11	2.4E+02	9.95	2.14	2.4E+02	-0.26
	3	10.03	2.14	2.4E+02	10.00	2.20	2.4E+02	-0.26
	4	9.86	2.13	2.4E+02	9.84	2.15	2.5E+02	-0.28
	5	9.81	2.09	2.4E+02	9.78	2.12	2.4E+02	-0.28
	6	10.00	2.13	2.4E+02	9.97	2.15	2.4E+02	-0.30
	7	9.52	2.08	2.5E+02	9.49	2.11	2.6E+02	-0.33
	8	9.80	2.08	2.4E+02	9.76	2.11	2.4E+02	-0.33
	9	9.79	2.11	2.4E+02	9.75	2.15	2.5E+02	-0.33
	10	9.87	2.11	2.4E+02	9.83	2.16	2.4E+02	-0.34
	11	9.84	2.12	2.4E+02	9.81	2.19	2.5E+02	-0.33
	12	9.78	2.09	2.4E+02	9.75	2.16	2.5E+02	-0.36
	13	9.87	2.12	2.4E+02	9.83	2.20	2.4E+02	-0.39
	14	9.71	2.10	2.4E+02	9.68	2.14	2.5E+02	-0.34
	15	9.85	2.09	2.4E+02	9.82	2.13	2.4E+02	-0.31
	16	9.73	2.10	2.4E+02	9.70	2.15	2.5E+02	-0.33
	17	9.83	2.06	2.3E+02	9.79	2.11	2.4E+02	-0.35
	18	9.74	2.08	2.4E+02	9.72	2.13	2.4E+02	-0.23
	19	9.84	2.11	2.4E+02	9.82	2.20	2.5E+02	-0.23
	20	10.08	2.13	2.4E+02	10.06	2.22	2.4E+02	-0.23
	21	9.68	2.09	2.4E+02	9.65	2.15	2.5E+02	-0.24
	22	10.00	2.12	2.4E+02	9.97	2.19	2.4E+02	-0.31
	23	9.89	2.10	2.4E+02	9.86	2.17	2.4E+02	-0.25
	24	10.04	2.10	2.3E+02	10.01	2.17	2.4E+02	-0.26
	25	9.81	2.10	2.4E+02	9.79	2.16	2.4E+02	-0.22
	26	9.67	2.08	2.4E+02	9.65	2.14	2.4E+02	-0.19
	27	9.98	2.12	2.3E+02	9.95	2.18	2.4E+02	-0.27
	28	10.09	2.12	2.3E+02	10.07	2.17	2.4E+02	-0.24
	29	9.95	2.08	2.3E+02	9.92	2.14	2.4E+02	-0.27
	30	9.91	2.10	2.4E+02	9.89	2.17	2.4E+02	-0.21
	31	9.88	2.10	2.4E+02	9.85	2.17	2.4E+02	-0.26
	32	9.79	2.09	2.4E+02	9.78	2.17	2.5E+02	-0.16
	33	9.77	2.10	2.4E+02	9.75	2.18	2.5E+02	-0.27
	34	9.80	2.10	2.4E+02	9.78	2.17	2.4E+02	-0.20
	35	9.74	2.11	2.4E+02	9.71	2.23	2.5E+02	-0.31
	36	9.87	2.09	2.4E+02	9.86	2.21	2.4E+02	-0.15
	37	9.91	2.13	2.4E+02	9.87	2.10	2.5E+02	-0.47
	38	9.78	2.12	2.4E+02	9.73	2.10	2.4E+02	-0.49
	39	9.83	2.10	2.4E+02	9.78	2.07	2.4E+02	-0.48
	40	9.77	2.09	2.4E+02	9.72	2.06	2.4E+02	-0.47
	41	9.95	2.13	2.4E+02	9.90	2.10	2.4E+02	-0.51
	42	9.64	2.11	2.5E+02	9.61	2.47	2.5E+02	-0.37
	43	9.91	2.12	2.4E+02	9.87	2.31	2.4E+02	-0.41
	44	9.77	2.07	2.4E+02	9.73	2.24	2.4E+02	-0.38
	45	9.61	2.09	2.4E+02	9.57	2.30	2.5E+02	-0.39
	46	9.83	2.12	2.4E+02	9.79	2.30	2.4E+02	-0.40
	47	9.92	2.10	2.4E+02	9.88	2.25	2.4E+02	-0.42
	48	9.78	2.08	2.4E+02	9.74	2.22	2.4E+02	-0.41
	49	9.96	2.16	2.4E+02	9.91	2.11	2.4E+02	-0.54
	50	9.86	2.13	2.4E+02	9.81	2.10	2.4E+02	-0.52
	51	9.73	2.09	2.4E+02	9.69	2.31	2.4E+02	-0.42
	52	9.78	2.11	2.4E+02	9.74	2.38	2.4E+02	-0.41
	53	9.79	2.08	2.4E+02	9.74	2.07	2.4E+02	-0.52
	54	9.71	2.11	2.4E+02	9.68	2.37	2.4E+02	-0.34
	55	9.62	2.12	2.5E+02	9.58	2.35	2.5E+02	-0.34
	56	9.91	2.13	2.4E+02	9.87	2.20	2.4E+02	-0.39
	57	9.93	2.15	2.4E+02	9.89	2.22	2.5E+02	-0.41
	58	9.80	2.10	2.4E+02	9.77	2.15	2.4E+02	-0.35
	59	9.89	2.10	2.4E+02	9.84	2.14	2.4E+02	-0.42
	60	9.87	2.13	2.4E+02	9.83	2.16	2.5E+02	-0.42
	61	9.88	2.11	2.4E+02	9.84	2.16	2.4E+02	-0.46
	62	9.71	2.10	2.5E+02	9.66	2.14	2.5E+02	-0.48
	63	9.70	2.09	2.4E+02	9.65	2.13	2.4E+02	-0.48
	64	9.92	2.08	2.4E+02	9.88	2.13	2.4E+02	-0.44
	65	10.01	2.12	2.3E+02	9.96	2.15	2.4E+02	-0.43
	66	9.90	2.08	2.3E+02	9.86	2.14	2.4E+02	-0.47
	67	9.87	2.12	2.4E+02	9.82	2.23	2.4E+02	-0.47
	68	9.96	2.14	2.4E+02	9.92	2.21	2.5E+02	-0.42
	69	9.94	2.16	2.4E+02	9.90	2.40	2.4E+02	-0.37
	70	9.78	2.12	2.4E+02	9.75	2.19	2.4E+02	-0.33
	71	9.90	2.13	2.4E+02	9.87	2.20	2.4E+02	-0.32
	72	9.84	2.10	2.4E+02	9.81	2.19	2.4E+02	-0.24
	73	9.78	2.10	2.4E+02	9.75	2.13	2.4E+02	-0.35
	74	9.86	2.11	2.3E+02	9.82	2.15	2.4E+02	-0.38
	75	9.79	2.14	2.4E+02	9.76	2.16	2.4E+02	-0.34
	76	9.80	2.11	2.4E+02	9.76	2.14	2.4E+02	-0.33
	77	9.78	2.10	2.4E+02	9.74	2.14	2.4E+02	-0.34

AEC-Q200 Summary of Test Results

Murata P/N: GCM32ER71E106KA57	
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A,B,C
Date before test: 2024/1/12	Date after test: 2024/3/30

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

No. of samples:	Initial readings			Final readings				
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			5.0E+01	-10.00
	upper	11.00	2.50			3.00		10.00
Measurement Statistics	mean	9.854	1.907	2.36E+02	9.618	1.935	2.46E+02	-2.399
	maximum	10.35	2.00	2.5E+02	10.09	2.00	2.6E+02	-2.10
	minimum	9.54	1.81	2.3E+02	9.34	1.87	2.4E+02	-2.61
	standard deviation	0.1452	0.0339	3.652E+00	0.1399	0.0310	3.934E+00	0.1105

Test Data

Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	10.12	1.91	2.4E+02	9.88	1.95	2.5E+02	-2.37
	2	9.92	1.92	2.3E+02	9.69	1.94	2.5E+02	-2.38
	3	9.61	1.85	2.3E+02	9.38	1.88	2.5E+02	-2.42
	4	10.19	1.97	2.4E+02	9.94	1.99	2.5E+02	-2.47
	5	9.67	1.90	2.4E+02	9.44	1.92	2.5E+02	-2.38
	6	9.78	1.88	2.3E+02	9.55	1.90	2.4E+02	-2.36
	7	9.81	1.89	2.3E+02	9.58	1.92	2.4E+02	-2.33
	8	9.81	1.88	2.3E+02	9.57	1.91	2.4E+02	-2.43
	9	9.76	1.86	2.3E+02	9.53	1.89	2.4E+02	-2.36
	10	10.35	1.99	2.4E+02	10.09	1.99	2.5E+02	-2.53
	11	10.04	1.91	2.3E+02	9.79	1.93	2.4E+02	-2.44
	12	9.98	1.95	2.4E+02	9.74	1.97	2.5E+02	-2.42
	13	9.95	1.90	2.3E+02	9.70	1.92	2.4E+02	-2.45
	14	9.99	1.90	2.3E+02	9.75	1.92	2.4E+02	-2.43
	15	9.66	1.87	2.3E+02	9.43	1.89	2.4E+02	-2.33
	16	10.03	1.97	2.4E+02	9.79	1.99	2.5E+02	-2.45
	17	9.74	1.86	2.3E+02	9.51	1.88	2.4E+02	-2.38
	18	9.72	1.89	2.3E+02	9.50	1.91	2.4E+02	-2.33
	19	9.77	1.89	2.4E+02	9.54	1.92	2.5E+02	-2.34
	20	10.07	1.92	2.3E+02	9.83	1.95	2.4E+02	-2.43
	21	9.70	1.88	2.3E+02	9.48	1.91	2.4E+02	-2.30
	22	9.60	1.88	2.4E+02	9.38	1.90	2.5E+02	-2.29
	23	9.84	1.93	2.4E+02	9.61	1.96	2.5E+02	-2.42
	24	9.96	1.92	2.3E+02	9.73	1.95	2.5E+02	-2.38
	25	10.06	1.93	2.3E+02	9.81	1.97	2.4E+02	-2.42
	26	9.72	1.87	2.3E+02	9.49	1.91	2.5E+02	-2.33
	27	10.23	1.99	2.4E+02	9.99	2.00	2.5E+02	-2.37
	28	9.86	1.88	2.3E+02	9.62	1.91	2.5E+02	-2.37
	29	9.74	1.90	2.3E+02	9.52	1.93	2.5E+02	-2.33
	30	10.13	1.93	2.4E+02	9.89	1.96	2.5E+02	-2.38
	31	9.74	1.92	2.4E+02	9.52	1.95	2.5E+02	-2.31
	32	9.82	1.87	2.3E+02	9.59	1.90	2.5E+02	-2.35
	33	9.87	1.90	2.4E+02	9.63	1.93	2.5E+02	-2.40
	34	9.96	1.92	2.4E+02	9.72	1.95	2.5E+02	-2.35
	35	10.00	1.91	2.3E+02	9.76	1.94	2.4E+02	-2.37
	36	10.08	1.97	2.4E+02	9.83	1.99	2.5E+02	-2.45
	37	10.04	1.94	2.4E+02	9.80	1.96	2.5E+02	-2.47
	38	9.83	1.90	2.3E+02	9.59	1.92	2.5E+02	-2.41
	39	9.89	1.90	2.3E+02	9.65	1.92	2.4E+02	-2.44
	40	9.96	1.89	2.3E+02	9.72	1.91	2.4E+02	-2.46
	41	9.80	1.89	2.3E+02	9.56	1.91	2.5E+02	-2.44
	42	9.93	1.93	2.4E+02	9.69	1.96	2.5E+02	-2.39
	43	9.77	1.89	2.3E+02	9.54	1.92	2.5E+02	-2.35
	44	10.06	1.91	2.3E+02	9.81	1.94	2.4E+02	-2.46
	45	9.86	1.90	2.3E+02	9.62	1.93	2.5E+02	-2.40
	46	9.68	1.87	2.4E+02	9.45	1.89	2.5E+02	-2.39
	47	9.96	1.92	2.3E+02	9.71	1.94	2.5E+02	-2.51
	48	10.08	1.99	2.4E+02	9.84	2.00	2.5E+02	-2.43
	49	9.85	1.90	2.4E+02	9.62	1.92	2.4E+02	-2.40
	50	9.85	1.95	2.4E+02	9.60	1.97	2.6E+02	-2.53
	51	9.74	1.88	2.3E+02	9.49	1.91	2.4E+02	-2.51
	52	9.92	1.90	2.3E+02	9.69	1.92	2.5E+02	-2.41
	53	10.00	1.89	2.3E+02	9.75	1.92	2.4E+02	-2.43
	54	9.99	1.95	2.4E+02	9.75	1.98	2.5E+02	-2.41
	55	9.69	1.87	2.4E+02	9.45	1.90	2.5E+02	-2.42
	56	9.90	1.92	2.4E+02	9.66	1.95	2.5E+02	-2.44
	57	9.69	1.87	2.3E+02	9.46	1.90	2.5E+02	-2.40
	58	10.33	1.99	2.4E+02	10.07	1.99	2.5E+02	-2.49
	59	10.01	1.92	2.4E+02	9.77	1.94	2.5E+02	-2.45
	60	9.99	1.88	2.3E+02	9.75	1.91	2.4E+02	-2.42
	61	10.06	1.92	2.3E+02	9.81	1.95	2.4E+02	-2.49
	62	10.09	1.92	2.3E+02	9.84	1.95	2.5E+02	-2.48
	63	9.94	1.91	2.4E+02	9.70	1.94	2.5E+02	-2.44
	64	9.77	1.90	2.4E+02	9.54	1.93	2.5E+02	-2.44
	65	9.84	1.88	2.3E+02	9.60	1.91	2.4E+02	-2.43
	66	9.70	1.85	2.3E+02	9.47	1.88	2.5E+02	-2.35
	67	9.83	1.86	2.3E+02	9.60	1.89	2.4E+02	-2.40
	68	9.96	1.92	2.4E+02	9.71	1.95	2.5E+02	-2.47
	69	10.04	1.92	2.3E+02	9.80	1.95	2.5E+02	-2.45
	70	9.68	1.87	2.3E+02	9.45	1.90	2.4E+02	-2.34
	71	9.77	1.88	2.4E+02	9.54	1.91	2.5E+02	-2.44
	72	9.87	1.87	2.3E+02	9.62	1.90	2.4E+02	-2.47
	73	9.78	1.84	2.3E+02	9.55	1.87	2.4E+02	-2.43
	74	10.07	1.92	2.3E+02	9.81	1.95	2.4E+02	-2.53
	75	9.73	1.90	2.4E+02	9.49	1.93	2.5E+02	-2.47
	76	9.83	1.89	2.3E+02	9.58	1.92	2.4E+02	-2.45
	77	10.05	1.92	2.4E+02	9.80	1.95	2.4E+02	-2.46

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata		Murata P/N: GCM32ER71E106KA57	
Date before test: 2024/1/12		Lot No: A,B,C	
Date after test: 2024/3/30			

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

B	1	9.73	1.85	2.4E+02	9.52	1.94	2.5E+02	-2.21
	2	9.67	1.88	2.5E+02	9.45	1.97	2.6E+02	-2.20
	3	9.85	1.84	2.3E+02	9.63	1.93	2.5E+02	-2.20
	4	9.93	1.89	2.3E+02	9.72	1.97	2.5E+02	-2.20
	5	9.75	1.85	2.4E+02	9.54	1.93	2.5E+02	-2.22
	6	9.87	1.89	2.4E+02	9.65	1.97	2.5E+02	-2.21
	7	10.04	1.90	2.3E+02	9.81	1.99	2.4E+02	-2.26
	8	9.92	1.90	2.3E+02	9.70	1.98	2.4E+02	-2.21
	9	9.87	1.85	2.3E+02	9.65	1.94	2.4E+02	-2.23
	10	9.76	1.81	2.3E+02	9.54	1.88	2.4E+02	-2.22
	11	9.91	1.88	2.3E+02	9.69	1.97	2.5E+02	-2.23
	12	9.95	1.88	2.3E+02	9.73	1.95	2.5E+02	-2.25
	13	9.66	1.83	2.3E+02	9.45	1.90	2.5E+02	-2.17
	14	9.89	1.91	2.4E+02	9.66	1.97	2.5E+02	-2.29
	15	9.92	1.89	2.3E+02	9.69	1.95	2.4E+02	-2.31
	16	10.01	1.90	2.3E+02	9.78	1.97	2.4E+02	-2.30
	17	9.99	1.89	2.3E+02	9.76	1.95	2.4E+02	-2.28
	18	9.79	1.89	2.3E+02	9.57	1.95	2.5E+02	-2.28
	19	9.68	1.87	2.4E+02	9.47	1.96	2.5E+02	-2.19
	20	9.69	1.87	2.4E+02	9.48	1.96	2.5E+02	-2.14
	21	9.75	1.85	2.4E+02	9.54	1.94	2.5E+02	-2.18
	22	9.79	1.87	2.4E+02	9.58	1.96	2.5E+02	-2.14
	23	9.77	1.85	2.3E+02	9.56	1.94	2.4E+02	-2.14
	24	9.92	1.89	2.4E+02	9.70	1.97	2.5E+02	-2.23
	25	9.84	1.88	2.4E+02	9.64	1.96	2.5E+02	-2.11
	26	9.77	1.93	2.4E+02	9.54	1.94	2.5E+02	-2.34
	27	9.78	1.90	2.4E+02	9.57	1.99	2.5E+02	-2.13
	28	9.72	1.83	2.4E+02	9.52	1.92	2.5E+02	-2.11
	29	9.68	1.88	2.4E+02	9.47	1.97	2.5E+02	-2.16
	30	9.99	1.90	2.3E+02	9.77	1.97	2.5E+02	-2.25
	31	9.87	1.88	2.3E+02	9.65	1.95	2.4E+02	-2.19
	32	10.04	1.89	2.3E+02	9.82	1.96	2.4E+02	-2.16
	33	9.80	1.88	2.4E+02	9.59	1.97	2.5E+02	-2.16
	34	9.96	1.87	2.3E+02	9.74	1.95	2.4E+02	-2.20
	35	9.54	1.85	2.4E+02	9.34	1.93	2.6E+02	-2.12
	36	10.04	1.91	2.3E+02	9.83	2.00	2.4E+02	-2.10
	37	10.12	1.94	2.3E+02	9.86	1.96	2.4E+02	-2.51
	38	9.90	1.94	2.4E+02	9.66	1.96	2.5E+02	-2.44
	39	9.90	1.93	2.3E+02	9.67	1.95	2.4E+02	-2.33
	40	9.67	1.91	2.4E+02	9.44	1.94	2.5E+02	-2.33
	41	9.89	1.93	2.3E+02	9.66	1.96	2.4E+02	-2.42
	42	9.91	1.93	2.3E+02	9.67	1.95	2.4E+02	-2.38
	43	9.96	1.93	2.4E+02	9.72	1.96	2.5E+02	-2.35
	44	9.83	1.93	2.4E+02	9.60	1.96	2.5E+02	-2.35
	45	9.90	1.91	2.3E+02	9.67	1.93	2.4E+02	-2.37
	46	9.87	1.94	2.4E+02	9.63	1.96	2.5E+02	-2.45
	47	9.68	1.94	2.5E+02	9.45	1.96	2.6E+02	-2.44
	48	9.65	1.91	2.4E+02	9.42	1.93	2.5E+02	-2.31
	49	9.71	1.91	2.4E+02	9.48	1.94	2.5E+02	-2.32
	50	9.83	1.92	2.4E+02	9.80	1.95	2.5E+02	-2.36
	51	9.84	1.92	2.4E+02	9.61	1.95	2.4E+02	-2.35
	52	9.86	1.93	2.4E+02	9.63	1.97	2.5E+02	-2.30
	53	9.82	1.93	2.4E+02	9.59	1.95	2.4E+02	-2.34
	54	9.88	1.94	2.4E+02	9.64	1.97	2.4E+02	-2.40
	55	9.75	1.92	2.4E+02	9.52	1.95	2.5E+02	-2.34
	56	9.79	1.91	2.4E+02	9.56	1.95	2.5E+02	-2.33
	57	9.78	1.93	2.4E+02	9.55	1.96	2.5E+02	-2.38
	58	9.76	1.92	2.4E+02	9.52	1.95	2.5E+02	-2.38
	59	9.66	1.85	2.3E+02	9.44	1.89	2.4E+02	-2.30
	60	9.84	1.94	2.4E+02	9.60	1.97	2.5E+02	-2.39
	61	9.90	1.92	2.4E+02	9.67	1.96	2.4E+02	-2.35
	62	9.80	1.95	2.4E+02	9.57	1.99	2.5E+02	-2.36
	63	9.87	1.93	2.3E+02	9.63	1.96	2.4E+02	-2.35
	64	9.87	1.92	2.3E+02	9.64	1.95	2.4E+02	-2.39
	65	10.11	1.97	2.4E+02	9.87	1.99	2.5E+02	-2.39
	66	9.84	1.93	2.4E+02	9.61	1.97	2.5E+02	-2.35
	67	9.87	1.90	2.3E+02	9.63	1.94	2.4E+02	-2.36
	68	9.94	1.91	2.3E+02	9.70	1.94	2.4E+02	-2.39
	69	9.89	1.93	2.4E+02	9.65	1.96	2.4E+02	-2.37
	70	9.83	1.90	2.4E+02	9.60	1.94	2.5E+02	-2.27
	71	10.02	1.94	2.4E+02	9.78	1.98	2.5E+02	-2.35
	72	9.77	1.89	2.4E+02	9.55	1.93	2.4E+02	-2.30
	73	9.88	1.91	2.4E+02	9.63	1.93	2.5E+02	-2.48
	74	9.75	1.92	2.4E+02	9.51	1.94	2.4E+02	-2.44
	75	9.98	1.94	2.4E+02	9.73	1.97	2.4E+02	-2.53
	76	9.83	1.93	2.4E+02	9.58	1.95	2.5E+02	-2.50
	77	9.98	1.94	2.3E+02	9.73	1.97	2.4E+02	-2.48

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata		Murata P/N: GCM32ER71E106KA57	
Date before test: 2024/1/12		Lot No: A,B,C	
Date after test: 2024/3/30			

#4 - Temperature Cycling

Test conditions : 1000cycles , -55deg C to 125deg C

C	1	10.05	1.96	2.4E+02	9.82	1.99	2.5E+02	-2.35
	2	10.08	1.97	2.4E+02	9.83	2.00	2.5E+02	-2.43
	3	10.17	1.96	2.4E+02	9.93	1.98	2.5E+02	-2.43
	4	9.80	1.90	2.4E+02	9.56	1.91	2.4E+02	-2.43
	5	9.66	1.91	2.4E+02	9.43	1.92	2.5E+02	-2.44
	6	9.90	1.98	2.4E+02	9.66	1.98	2.5E+02	-2.44
	7	9.83	1.89	2.3E+02	9.59	1.90	2.4E+02	-2.44
	8	9.67	1.89	2.3E+02	9.43	1.90	2.4E+02	-2.46
	9	9.62	1.90	2.3E+02	9.39	1.90	2.4E+02	-2.39
	10	9.64	1.90	2.4E+02	9.40	1.90	2.4E+02	-2.53
	11	9.94	1.91	2.3E+02	9.69	1.92	2.4E+02	-2.50
	12	9.69	1.87	2.4E+02	9.45	1.88	2.4E+02	-2.55
	13	9.76	1.92	2.4E+02	9.51	1.92	2.4E+02	-2.52
	14	9.88	1.95	2.4E+02	9.63	1.94	2.5E+02	-2.51
	15	9.72	1.89	2.4E+02	9.48	1.90	2.4E+02	-2.45
	16	9.86	1.96	2.5E+02	9.61	1.96	2.5E+02	-2.53
	17	9.88	1.87	2.3E+02	9.63	1.88	2.4E+02	-2.50
	18	10.06	1.95	2.4E+02	9.79	1.96	2.4E+02	-2.61
	19	9.75	1.90	2.4E+02	9.51	1.91	2.4E+02	-2.44
	20	9.61	1.87	2.4E+02	9.38	1.88	2.5E+02	-2.42
	21	9.76	1.93	2.4E+02	9.52	1.93	2.5E+02	-2.46
	22	9.78	1.94	2.4E+02	9.54	1.95	2.5E+02	-2.49
	23	9.72	1.90	2.3E+02	9.49	1.91	2.4E+02	-2.43
	24	9.71	1.90	2.3E+02	9.48	1.91	2.4E+02	-2.43
	25	9.64	1.88	2.4E+02	9.42	1.89	2.4E+02	-2.35
	26	9.82	1.92	2.3E+02	9.58	1.94	2.4E+02	-2.39
	27	9.72	1.91	2.4E+02	9.48	1.92	2.4E+02	-2.48
	28	9.67	1.88	2.4E+02	9.43	1.89	2.5E+02	-2.45
	29	9.75	1.90	2.4E+02	9.51	1.91	2.5E+02	-2.45
	30	9.74	1.86	2.3E+02	9.50	1.88	2.4E+02	-2.47
	31	9.84	1.90	2.4E+02	9.59	1.92	2.5E+02	-2.52
	32	9.97	1.94	2.4E+02	9.73	1.95	2.5E+02	-2.46
	33	9.65	1.90	2.4E+02	9.41	1.92	2.5E+02	-2.50
	34	9.87	1.89	2.3E+02	9.63	1.90	2.4E+02	-2.44
	35	9.66	1.87	2.3E+02	9.43	1.89	2.4E+02	-2.43
	36	10.04	1.93	2.3E+02	9.79	1.95	2.4E+02	-2.50
	37	9.90	1.95	2.4E+02	9.66	1.96	2.5E+02	-2.48
	38	9.69	1.89	2.4E+02	9.45	1.91	2.5E+02	-2.47
	39	9.74	1.89	2.4E+02	9.50	1.91	2.4E+02	-2.50
	40	10.04	1.95	2.4E+02	9.79	1.96	2.4E+02	-2.55
	41	9.80	1.90	2.3E+02	9.55	1.91	2.4E+02	-2.51
	42	10.10	1.99	2.4E+02	9.84	2.00	2.5E+02	-2.54
	43	9.57	1.90	2.4E+02	9.34	1.91	2.5E+02	-2.40
	44	10.00	1.95	2.3E+02	9.75	1.96	2.4E+02	-2.50
	45	9.97	1.95	2.3E+02	9.73	1.96	2.4E+02	-2.46
	46	9.88	1.91	2.3E+02	9.64	1.93	2.4E+02	-2.47
	47	9.68	1.85	2.4E+02	9.46	1.91	2.5E+02	-2.28
	48	9.60	1.89	2.4E+02	9.36	1.91	2.5E+02	-2.51
	49	9.97	1.93	2.3E+02	9.72	1.94	2.4E+02	-2.56
	50	9.85	1.90	2.3E+02	9.60	1.91	2.4E+02	-2.51
	51	9.91	1.95	2.4E+02	9.67	1.97	2.5E+02	-2.42
	52	9.78	1.90	2.3E+02	9.54	1.91	2.4E+02	-2.40
	53	9.79	1.89	2.3E+02	9.55	1.90	2.4E+02	-2.44
	54	9.77	1.90	2.3E+02	9.53	1.92	2.4E+02	-2.46
	55	9.95	1.96	2.4E+02	9.70	1.97	2.5E+02	-2.51
	56	9.63	1.88	2.4E+02	9.39	1.89	2.5E+02	-2.51
	57	9.82	1.90	2.3E+02	9.57	1.91	2.4E+02	-2.55
	58	9.99	2.00	2.4E+02	9.73	1.97	2.5E+02	-2.60
	59	10.00	1.95	2.4E+02	9.75	1.97	2.4E+02	-2.51
	60	9.79	1.89	2.3E+02	9.54	1.90	2.4E+02	-2.50
	61	9.95	1.93	2.3E+02	9.70	1.90	2.4E+02	-2.55
	62	10.12	1.99	2.4E+02	9.86	1.90	2.5E+02	-2.61
	63	9.80	1.92	2.4E+02	9.54	1.90	2.5E+02	-2.58
	64	9.90	1.97	2.4E+02	9.65	1.90	2.5E+02	-2.55
	65	9.79	1.92	2.4E+02	9.54	1.90	2.5E+02	-2.53
	66	9.75	1.89	2.4E+02	9.50	1.90	2.5E+02	-2.54
	67	9.73	1.89	2.3E+02	9.48	1.90	2.4E+02	-2.57
	68	9.70	1.89	2.3E+02	9.46	1.90	2.4E+02	-2.51
	69	9.77	1.92	2.4E+02	9.51	1.90	2.5E+02	-2.59
	70	9.85	1.93	2.3E+02	9.60	1.90	2.4E+02	-2.54
	71	9.83	1.92	2.3E+02	9.58	1.90	2.4E+02	-2.53
	72	9.74	1.89	2.3E+02	9.48	1.90	2.4E+02	-2.60
	73	9.74	1.89	2.4E+02	9.50	1.90	2.5E+02	-2.45
	74	9.94	1.92	2.3E+02	9.69	1.90	2.4E+02	-2.53
	75	10.12	1.97	2.4E+02	9.86	1.90	2.4E+02	-2.58
	76	9.71	1.89	2.3E+02	9.47	1.90	2.4E+02	-2.48
	77	9.60	1.88	2.4E+02	9.37	1.90	2.4E+02	-2.41

AEC-Q200 Summary of Test Results		
		Murata P/N: GCM32ER71E106KA57
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A
Date before test: 2023/10/7		Date after test: 2023/10/7
#5 - Destructive Physical Analysis		
Number of Samples: 10 Number of Lots: 1		Number of failures: 0
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57						
Date before test: 2023/9/27				Lot No: A,B,C						
Date after test: 2023/10/8										
#6 - Moisture Resistance										
<i>Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH</i>										
No. of samples:	77			Initial readings				Final readings		
No. of lots:	3			Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01		5.00		5.0E+01		-12.50
	upper	11.00		2.50						12.50
Measurement Statistics	mean	9.855	2.123	2.38E+02	9.556	2.120	2.69E+02	-3.032		
	maximum	10.18	2.84	2.5E+02	9.85	2.47	2.9E+02	-2.70		
	minimum	9.54	2.03	2.3E+02	9.25	2.00	2.6E+02	-3.36		
	standard deviation	0.1292	0.0737	3.626E+00	0.1214	0.0719	4.738E+00	0.1160		
Test Data										
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %		
A	1	9.70	2.10	2.5E+02	9.40	2.06	2.8E+02	-3.05		
	2	9.56	2.07	2.5E+02	9.27	2.05	2.8E+02	-3.03		
	3	10.02	2.12	2.4E+02	9.71	2.09	2.7E+02	-3.00		
	4	9.59	2.08	2.5E+02	9.31	2.05	2.8E+02	-2.96		
	5	9.89	2.09	2.3E+02	9.59	2.06	2.6E+02	-3.01		
	6	9.78	2.09	2.4E+02	9.48	2.06	2.7E+02	-3.01		
	7	9.87	2.11	2.4E+02	9.57	2.07	2.7E+02	-2.99		
	8	9.84	2.09	2.4E+02	9.54	2.07	2.7E+02	-3.05		
	9	10.02	2.16	2.4E+02	9.71	2.13	2.7E+02	-3.13		
	10	9.97	2.12	2.4E+02	9.66	2.10	2.7E+02	-3.10		
	11	9.80	2.07	2.4E+02	9.51	2.05	2.6E+02	-3.04		
	12	9.72	2.08	2.4E+02	9.42	2.07	2.8E+02	-3.05		
	13	9.83	2.11	2.4E+02	9.52	2.08	2.7E+02	-3.11		
	14	9.80	2.08	2.4E+02	9.51	2.08	2.7E+02	-2.97		
	15	9.84	2.09	2.4E+02	9.54	2.06	2.7E+02	-3.10		
	16	9.76	2.10	2.4E+02	9.46	2.10	2.7E+02	-3.11		
	17	9.97	2.16	2.4E+02	9.65	2.15	2.7E+02	-3.22		
	18	9.70	2.11	2.4E+02	9.39	2.12	2.7E+02	-3.18		
	19	9.84	2.12	2.4E+02	9.53	2.07	2.7E+02	-3.15		
	20	9.81	2.13	2.4E+02	9.51	2.16	2.8E+02	-3.12		
	21	9.92	2.12	2.4E+02	9.62	2.20	2.7E+02	-3.04		
	22	10.11	2.13	2.4E+02	9.80	2.18	2.7E+02	-3.02		
	23	9.89	2.12	2.4E+02	9.59	2.15	2.7E+02	-3.10		
	24	10.09	2.13	2.4E+02	9.78	2.09	2.7E+02	-3.09		
	25	9.85	2.09	2.4E+02	9.56	2.12	2.7E+02	-2.95		
	26	9.88	2.10	2.4E+02	9.59	2.17	2.6E+02	-2.90		
	27	10.00	2.12	2.4E+02	9.68	2.16	2.7E+02	-3.13		
	28	9.54	2.06	2.5E+02	9.25	2.11	2.8E+02	-3.06		
	29	10.00	2.12	2.4E+02	9.69	2.13	2.6E+02	-3.15		
	30	9.85	2.09	2.4E+02	9.55	2.11	2.6E+02	-2.96		
	31	9.84	2.10	2.4E+02	9.54	2.14	2.7E+02	-3.06		
	32	9.95	2.10	2.3E+02	9.64	2.22	2.6E+02	-3.09		
	33	9.79	2.07	2.4E+02	9.49	2.14	2.7E+02	-3.07		
	34	10.11	2.13	2.3E+02	9.79	2.19	2.6E+02	-3.15		
	35	9.77	2.14	2.4E+02	9.46	2.24	2.7E+02	-3.21		
	36	9.93	2.16	2.3E+02	9.61	2.21	2.7E+02	-3.25		
	37	10.15	2.13	2.3E+02	9.84	2.10	2.7E+02	-3.07		
	38	10.03	2.13	2.4E+02	9.73	2.10	2.7E+02	-2.97		
	39	9.85	2.10	2.4E+02	9.56	2.07	2.7E+02	-2.97		
	40	9.85	2.12	2.4E+02	9.56	2.09	2.7E+02	-2.96		
	41	9.84	2.13	2.4E+02	9.54	2.11	2.7E+02	-3.00		
	42	9.85	2.09	2.4E+02	9.56	2.08	2.7E+02	-2.98		
	43	9.91	2.12	2.4E+02	9.61	2.10	2.7E+02	-3.03		
	44	9.88	2.12	2.4E+02	9.58	2.10	2.7E+02	-3.00		
	45	9.85	2.15	2.4E+02	9.55	2.11	2.7E+02	-3.04		
	46	9.73	2.10	2.4E+02	9.44	2.07	2.7E+02	-2.95		
	47	9.93	2.11	2.4E+02	9.64	2.10	2.7E+02	-2.94		
	48	9.86	2.12	2.4E+02	9.57	2.09	2.7E+02	-2.95		
	49	9.93	2.08	2.3E+02	9.64	2.06	2.6E+02	-2.95		
	50	10.01	2.13	2.4E+02	9.70	2.11	2.7E+02	-3.01		
	51	9.85	2.15	2.4E+02	9.56	2.12	2.7E+02	-2.98		
	52	9.77	2.12	2.4E+02	9.48	2.10	2.7E+02	-3.01		
	53	9.82	2.09	2.4E+02	9.52	2.08	2.7E+02	-3.03		
	54	9.83	2.12	2.4E+02	9.53	2.10	2.7E+02	-3.03		
	55	9.91	2.10	2.4E+02	9.61	2.08	2.7E+02	-3.02		
	56	9.78	2.10	2.4E+02	9.50	2.12	2.7E+02	-2.92		
	57	9.85	2.08	2.4E+02	9.57	2.08	2.6E+02	-2.87		
	58	9.82	2.11	2.5E+02	9.54	2.10	2.7E+02	-2.91		
	59	9.89	2.14	2.4E+02	9.59	2.14	2.7E+02	-3.02		
	60	9.59	2.08	2.5E+02	9.30	2.10	2.8E+02	-2.97		
	61	9.82	2.10	2.4E+02	9.53	2.10	2.7E+02	-2.92		
	62	9.95	2.12	2.4E+02	9.65	2.14	2.7E+02	-3.02		
	63	9.91	2.08	2.3E+02	9.62	2.08	2.6E+02	-2.94		
	64	9.83	2.09	2.4E+02	9.54	2.09	2.6E+02	-2.88		
	65	10.05	2.14	2.4E+02	9.75	2.14	2.7E+02	-2.99		
	66	9.86	2.11	2.4E+02	9.57	2.25	2.7E+02	-2.95		
	67	9.72	2.11	2.4E+02	9.42	2.14	2.7E+02	-3.03		
	68	10.02	2.12	2.3E+02	9.71	2.12	2.6E+02	-3.02		
	69	9.85	2.12	2.4E+02	9.56	2.12	2.7E+02	-2.96		
	70	9.95	2.11	2.3E+02	9.66	2.15	2.6E+02	-2.90		
	71	9.85	2.10	2.4E+02	9.56	2.15	2.7E+02	-2.93		
	72	10.05	2.14	2.3E+02	9.74	2.16	2.6E+02	-3.13		
	73	9.96	2.14	2.4E+02	9.64	2.10	2.7E+02	-3.16		
	74	9.86	2.12	2.4E+02	9.56	2.09	2.7E+02	-3.00		
	75	9.84	2.11	2.3E+02	9.55	2.07	2.7E+02	-2.97		
	76	9.69	2.06	2.4E+02	9.41	2.03	2.7E+02	-2.88		
	77	9.78	2.09	2.4E+02	9.49	2.08	2.7E+02	-2.90		

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/9/27				Lot No: A,B,C				
Date after test: 2023/10/8								
#6 - Moisture Resistance								
<i>Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH</i>								
B	1	10.01	2.17	2.4E+02	9.69	2.17	2.8E+02	-3.15
	2	9.77	2.10	2.4E+02	9.47	2.15	2.8E+02	-3.13
	3	9.65	2.14	2.4E+02	9.36	2.12	2.8E+02	-3.06
	4	9.67	2.16	2.4E+02	9.37	2.15	2.7E+02	-3.09
	5	9.77	2.07	2.4E+02	9.47	2.10	2.7E+02	-3.06
	6	9.77	2.12	2.4E+02	9.48	2.16	2.7E+02	-3.00
	7	9.86	2.09	2.3E+02	9.57	2.14	2.7E+02	-3.02
	8	9.72	2.06	2.4E+02	9.43	2.08	2.7E+02	-2.96
	9	9.91	2.07	2.3E+02	9.61	2.08	2.6E+02	-3.02
	10	9.80	2.12	2.4E+02	9.50	2.12	2.7E+02	-3.03
	11	10.09	2.20	2.4E+02	9.77	2.18	2.7E+02	-3.17
	12	9.77	2.09	2.3E+02	9.47	2.12	2.7E+02	-3.09
	13	9.92	2.16	2.4E+02	9.61	2.16	2.7E+02	-3.17
	14	9.77	2.09	2.3E+02	9.47	2.09	2.6E+02	-3.05
	15	9.71	2.17	2.4E+02	9.41	2.04	2.7E+02	-3.13
	16	9.89	2.16	2.3E+02	9.59	2.19	2.6E+02	-3.09
	17	10.02	2.15	2.4E+02	9.70	2.36	2.7E+02	-3.19
	18	9.82	2.06	2.3E+02	9.51	2.01	2.7E+02	-3.22
	19	9.85	2.13	2.4E+02	9.55	2.28	2.7E+02	-3.06
	20	9.87	2.11	2.4E+02	9.57	2.19	2.7E+02	-3.02
	21	10.10	2.22	2.4E+02	9.78	2.24	2.8E+02	-3.12
	22	9.82	2.15	2.4E+02	9.49	2.09	2.7E+02	-3.27
	23	9.81	2.08	2.3E+02	9.51	2.09	2.6E+02	-3.00
	24	9.62	2.07	2.4E+02	9.33	2.07	2.7E+02	-3.08
	25	9.87	2.06	2.3E+02	9.56	2.09	2.7E+02	-3.11
	26	9.95	2.08	2.3E+02	9.65	2.07	2.6E+02	-3.05
	27	9.88	2.13	2.4E+02	9.59	2.09	2.7E+02	-2.98
	28	9.70	2.11	2.3E+02	9.41	2.12	2.6E+02	-3.00
	29	9.73	2.11	2.3E+02	9.43	2.10	2.7E+02	-3.07
	30	9.82	2.14	2.4E+02	9.52	2.19	2.7E+02	-3.11
	31	9.96	2.35	2.4E+02	9.64	2.47	2.7E+02	-3.18
	32	9.68	2.14	2.4E+02	9.38	2.02	2.7E+02	-3.03
	33	9.84	2.03	2.3E+02	9.55	2.09	2.7E+02	-3.01
	34	9.84	2.12	2.4E+02	9.53	2.13	2.7E+02	-3.12
	35	10.18	2.18	2.4E+02	9.85	2.18	2.7E+02	-3.23
	36	9.80	2.13	2.4E+02	9.49	2.15	2.8E+02	-3.17
	37	9.69	2.12	2.4E+02	9.41	2.07	2.7E+02	-2.89
	38	9.75	2.10	2.4E+02	9.47	2.06	2.6E+02	-2.85
	39	9.77	2.46	2.4E+02	9.50	2.15	2.7E+02	-2.81
	40	9.74	2.11	2.4E+02	9.46	2.13	2.7E+02	-2.83
	41	9.67	2.08	2.3E+02	9.40	2.05	2.6E+02	-2.82
	42	9.79	2.13	2.4E+02	9.52	2.12	2.7E+02	-2.83
	43	9.78	2.06	2.4E+02	9.51	2.05	2.6E+02	-2.80
	44	9.85	2.12	2.4E+02	9.56	2.06	2.7E+02	-2.91
	45	9.70	2.07	2.4E+02	9.43	2.01	2.6E+02	-2.79
	46	9.88	2.11	2.4E+02	9.59	2.05	2.6E+02	-2.88
	47	9.93	2.16	2.4E+02	9.65	2.10	2.7E+02	-2.88
	48	9.87	2.22	2.4E+02	9.58	2.12	2.7E+02	-2.90
	49	10.13	2.19	2.5E+02	9.81	2.21	2.8E+02	-3.20
	50	9.68	2.03	2.4E+02	9.41	2.04	2.6E+02	-2.76
	51	9.99	2.10	2.4E+02	9.70	2.18	2.7E+02	-2.94
	52	9.54	2.17	2.4E+02	9.26	2.25	2.8E+02	-2.98
	53	9.85	2.12	2.4E+02	9.57	2.18	2.7E+02	-2.78
	54	9.87	2.40	2.3E+02	9.56	2.11	2.7E+02	-3.16
	55	9.92	2.16	2.4E+02	9.62	2.09	2.7E+02	-3.03
	56	9.79	2.84	2.4E+02	9.51	2.18	2.7E+02	-2.88
	57	10.06	2.29	2.4E+02	9.77	2.27	2.7E+02	-2.86
	58	9.76	2.35	2.4E+02	9.49	2.23	2.7E+02	-2.80
	59	9.72	2.18	2.3E+02	9.46	2.13	2.6E+02	-2.70
	60	9.95	2.38	2.4E+02	9.66	2.17	2.7E+02	-2.87
	61	9.70	2.10	2.3E+02	9.44	2.07	2.6E+02	-2.73
	62	9.56	2.06	2.4E+02	9.30	2.05	2.7E+02	-2.74
	63	9.93	2.16	2.4E+02	9.65	2.14	2.7E+02	-2.83
	64	9.83	2.10	2.3E+02	9.56	2.10	2.6E+02	-2.77
	65	9.84	2.11	2.4E+02	9.56	2.05	2.7E+02	-2.90
	66	9.93	2.12	2.4E+02	9.65	2.11	2.7E+02	-2.85
	67	9.84	2.12	2.3E+02	9.56	2.34	2.6E+02	-2.85
	68	9.74	2.10	2.4E+02	9.46	2.15	2.7E+02	-2.88
	69	10.12	2.22	2.4E+02	9.82	2.35	2.7E+02	-2.96
	70	9.85	2.13	2.4E+02	9.57	2.34	2.7E+02	-2.87
	71	9.68	2.12	2.4E+02	9.39	2.10	2.7E+02	-3.00
	72	9.68	2.08	2.3E+02	9.40	2.09	2.7E+02	-2.91
	73	9.89	2.10	2.4E+02	9.59	2.03	2.6E+02	-3.03
	74	9.75	2.11	2.4E+02	9.46	2.03	2.7E+02	-2.97
	75	9.77	2.08	2.3E+02	9.48	2.00	2.6E+02	-2.95
	76	9.73	2.08	2.4E+02	9.45	2.01	2.7E+02	-2.87
	77	10.00	2.14	2.4E+02	9.71	2.08	2.7E+02	-2.93

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/9/27				Lot No: A,B,C				
Date after test: 2023/10/8								
#6 - Moisture Resistance								
<i>Test conditions : 10cycles(1cycle : 24hr) , 25deg C / 80% RH to 65deg C / 98% RH</i>								
C	1	9.84	2.08	2.4E+02	9.53	2.04	2.7E+02	-3.18
	2	9.69	2.05	2.4E+02	9.40	2.03	2.7E+02	-3.06
	3	9.65	2.07	2.4E+02	9.36	2.03	2.7E+02	-3.04
	4	9.88	2.12	2.4E+02	9.57	2.07	2.7E+02	-3.08
	5	9.84	2.05	2.3E+02	9.55	2.08	2.6E+02	-2.97
	6	9.92	2.11	2.4E+02	9.61	2.28	2.7E+02	-3.13
	7	9.90	2.12	2.4E+02	9.60	2.11	2.7E+02	-3.04
	8	9.87	2.11	2.4E+02	9.57	2.10	2.7E+02	-3.06
	9	9.79	2.07	2.4E+02	9.49	2.03	2.7E+02	-3.03
	10	9.78	2.12	2.5E+02	9.47	2.09	2.8E+02	-3.17
	11	9.86	2.07	2.4E+02	9.56	2.14	2.7E+02	-3.06
	12	9.83	2.07	2.4E+02	9.53	2.05	2.7E+02	-3.09
	13	9.73	2.05	2.3E+02	9.43	2.07	2.7E+02	-3.09
	14	9.99	2.09	2.3E+02	9.68	2.09	2.7E+02	-3.09
	15	9.90	2.08	2.3E+02	9.60	2.07	2.7E+02	-3.07
	16	9.80	2.06	2.3E+02	9.49	2.26	2.7E+02	-3.13
	17	10.11	2.16	2.4E+02	9.78	2.14	2.7E+02	-3.27
	18	9.72	2.10	2.4E+02	9.41	2.12	2.9E+02	-3.19
	19	9.72	2.15	2.4E+02	9.41	2.07	2.8E+02	-3.11
	20	10.07	2.28	2.4E+02	9.75	2.15	2.7E+02	-3.16
	21	9.87	2.19	2.4E+02	9.55	2.09	2.7E+02	-3.23
	22	10.01	2.17	2.4E+02	9.70	2.15	2.7E+02	-3.14
	23	9.76	2.08	2.4E+02	9.45	2.01	2.7E+02	-3.15
	24	9.79	2.08	2.3E+02	9.50	2.06	2.6E+02	-3.02
	25	9.66	2.04	2.4E+02	9.37	2.04	2.7E+02	-3.01
	26	10.00	2.16	2.4E+02	9.68	2.12	2.7E+02	-3.14
	27	9.70	2.07	2.3E+02	9.40	2.08	2.6E+02	-3.05
	28	10.08	2.18	2.4E+02	9.76	2.09	2.7E+02	-3.17
	29	9.97	2.11	2.4E+02	9.66	2.11	2.7E+02	-3.15
	30	9.85	2.06	2.3E+02	9.54	2.04	2.7E+02	-3.18
	31	9.84	2.08	2.3E+02	9.53	2.07	2.7E+02	-3.15
	32	9.77	2.07	2.3E+02	9.47	2.08	2.7E+02	-3.05
	33	9.62	2.16	2.4E+02	9.35	2.04	2.8E+02	-2.81
	34	10.01	2.18	2.4E+02	9.69	2.15	2.8E+02	-3.22
	35	9.71	2.09	2.3E+02	9.41	2.04	2.7E+02	-3.15
	36	9.98	2.16	2.4E+02	9.64	2.21	2.8E+02	-3.36
	37	9.81	2.05	2.3E+02	9.51	2.08	2.6E+02	-3.07
	38	9.85	2.10	2.4E+02	9.55	2.11	2.7E+02	-3.07
	39	9.81	2.08	2.4E+02	9.52	2.37	2.7E+02	-2.99
	40	9.96	2.10	2.4E+02	9.66	2.20	2.7E+02	-3.00
	41	9.96	2.16	2.4E+02	9.65	2.15	2.7E+02	-3.06
	42	9.91	2.11	2.4E+02	9.61	2.22	2.7E+02	-3.02
	43	9.82	2.09	2.4E+02	9.53	2.23	2.7E+02	-2.99
	44	9.95	2.12	2.4E+02	9.65	2.11	2.6E+02	-3.04
	45	9.83	2.10	2.4E+02	9.54	2.08	2.7E+02	-3.00
	46	9.56	2.05	2.4E+02	9.28	2.05	2.7E+02	-2.93
	47	9.73	2.08	2.3E+02	9.44	2.11	2.7E+02	-2.97
	48	10.06	2.14	2.4E+02	9.75	2.21	2.8E+02	-3.10
	49	10.15	2.19	2.4E+02	9.83	2.19	2.7E+02	-3.17
	50	9.76	2.10	2.3E+02	9.46	2.08	2.7E+02	-3.08
	51	9.65	2.11	2.5E+02	9.35	2.28	2.8E+02	-3.06
	52	10.08	2.15	2.3E+02	9.77	2.15	2.7E+02	-3.14
	53	9.88	2.12	2.4E+02	9.57	2.11	2.7E+02	-3.15
	54	10.07	2.20	2.3E+02	9.74	2.12	2.7E+02	-3.27
	55	10.03	2.15	2.4E+02	9.71	2.07	2.7E+02	-3.21
	56	9.87	2.12	2.4E+02	9.56	2.06	2.7E+02	-3.16
	57	9.84	2.12	2.4E+02	9.54	2.10	2.7E+02	-3.04
	58	9.99	2.13	2.4E+02	9.68	2.08	2.7E+02	-3.10
	59	9.80	2.06	2.4E+02	9.49	2.01	2.7E+02	-3.08
	60	9.97	2.13	2.4E+02	9.66	2.08	2.7E+02	-3.10
	61	9.86	2.09	2.4E+02	9.57	2.09	2.7E+02	-2.95
	62	9.70	2.05	2.3E+02	9.41	2.08	2.6E+02	-2.98
	63	9.85	2.10	2.4E+02	9.56	2.05	2.7E+02	-3.02
	64	9.65	2.08	2.4E+02	9.36	2.07	2.7E+02	-3.07
	65	9.85	2.11	2.4E+02	9.55	2.13	2.8E+02	-3.08
	66	10.01	2.12	2.3E+02	9.71	2.11	2.7E+02	-3.04
	67	10.07	2.15	2.4E+02	9.75	2.34	2.7E+02	-3.16
	68	9.99	2.13	2.4E+02	9.69	2.15	2.7E+02	-3.07
	69	9.93	2.16	2.4E+02	9.63	2.23	2.8E+02	-3.02
	70	9.75	2.10	2.4E+02	9.46	2.11	2.7E+02	-3.00
	71	9.85	2.10	2.4E+02	9.56	2.11	2.7E+02	-2.93
	72	10.01	2.16	2.4E+02	9.69	2.16	2.7E+02	-3.14
	73	9.94	2.12	2.4E+02	9.63	2.08	2.7E+02	-3.16
	74	10.06	2.20	2.4E+02	9.74	2.16	2.7E+02	-3.23
	75	9.84	2.14	2.4E+02	9.53	2.13	2.7E+02	-3.16
	76	9.91	2.18	2.4E+02	9.80	2.15	2.7E+02	-3.15
	77	10.00	2.18	2.3E+02	9.69	2.19	2.7E+02	-3.11

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/10/8				Lot No: A,B,C				
Date after test: 2023/12/7								
#7 - Humidity Bias								
<i>Test conditions : 1000hr , 85deg C / 85% RH , 1WV</i>								
No. of samples:	77			Initial readings				Final readings
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			2.5E+00	-12.50
	upper	11.00	2.50			5.00		12.50
Measurement Statistics	mean	9.896	2.123	2.38E+02	9.333	2.363	4.90E+02	-5.683
	maximum	10.44	2.29	2.5E+02	9.81	2.69	5.3E+02	-5.33
	minimum	9.51	2.03	2.3E+02	8.98	2.22	4.6E+02	-6.11
	standard deviation	0.1713	0.0450	4.199E+00	0.1517	0.0701	1.346E+01	0.1457
Test Data								
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
A	1	9.62	2.08	2.4E+02	9.09	2.30	5.0E+02	-5.51
	2	9.68	2.10	2.4E+02	9.14	2.35	5.0E+02	-5.59
	3	9.70	2.09	2.4E+02	9.16	2.32	5.0E+02	-5.53
	4	9.66	2.09	2.4E+02	9.12	2.32	5.0E+02	-5.57
	5	9.66	2.09	2.4E+02	9.13	2.32	5.0E+02	-5.52
	6	9.69	2.07	2.4E+02	9.16	2.31	4.9E+02	-5.48
	7	9.69	2.09	2.4E+02	9.15	2.33	4.9E+02	-5.58
	8	9.75	2.08	2.4E+02	9.21	2.32	4.9E+02	-5.57
	9	9.74	2.07	2.3E+02	9.20	2.31	4.7E+02	-5.46
	10	9.84	2.10	2.4E+02	9.29	2.33	4.9E+02	-5.58
	11	9.71	2.08	2.4E+02	9.17	2.31	4.9E+02	-5.53
	12	9.80	2.08	2.3E+02	9.26	2.31	4.7E+02	-5.53
	13	9.67	2.06	2.4E+02	9.14	2.30	4.8E+02	-5.43
	14	9.85	2.11	2.3E+02	9.29	2.34	4.8E+02	-5.62
	15	10.05	2.19	2.4E+02	9.46	2.41	5.1E+02	-5.88
	16	9.80	2.12	2.4E+02	9.24	2.35	4.9E+02	-5.66
	17	9.70	2.09	2.4E+02	9.15	2.32	4.9E+02	-5.66
	18	9.76	2.06	2.3E+02	9.21	2.32	4.7E+02	-5.61
	19	9.71	2.08	2.4E+02	9.16	2.30	4.8E+02	-5.72
	20	9.72	2.08	2.4E+02	9.17	2.32	5.0E+02	-5.62
	21	9.88	2.15	2.5E+02	9.31	2.39	5.2E+02	-5.82
	22	9.75	2.10	2.4E+02	9.20	2.33	4.9E+02	-5.71
	23	9.85	2.07	2.3E+02	9.30	2.31	4.7E+02	-5.61
	24	9.67	2.07	2.4E+02	9.13	2.31	4.9E+02	-5.61
	25	9.70	2.08	2.4E+02	9.15	2.31	5.0E+02	-5.68
	26	9.93	2.12	2.4E+02	9.36	2.36	5.0E+02	-5.74
	27	9.87	2.12	2.4E+02	9.31	2.36	4.9E+02	-5.72
	28	9.84	2.11	2.3E+02	9.28	2.35	4.8E+02	-5.71
	29	9.82	2.10	2.4E+02	9.25	2.31	5.0E+02	-5.88
	30	9.95	2.18	2.4E+02	9.35	2.38	5.0E+02	-5.97
	31	9.67	2.07	2.3E+02	9.13	2.30	4.7E+02	-5.63
	32	9.89	2.13	2.4E+02	9.32	2.36	5.0E+02	-5.81
	33	9.78	2.10	2.4E+02	9.22	2.34	4.9E+02	-5.69
	34	9.97	2.10	2.3E+02	9.41	2.35	4.7E+02	-5.65
	35	9.66	2.05	2.3E+02	9.13	2.31	4.7E+02	-5.56
	36	10.02	2.14	2.4E+02	9.44	2.42	5.0E+02	-5.85
	37	9.81	2.13	2.4E+02	9.26	2.39	5.0E+02	-5.65
	38	10.06	2.19	2.4E+02	9.47	2.59	5.1E+02	-5.88
	39	9.62	2.09	2.4E+02	9.09	2.30	4.9E+02	-5.51
	40	10.11	2.20	2.4E+02	9.52	2.42	5.1E+02	-5.85
	41	10.13	2.21	2.5E+02	9.53	2.42	5.2E+02	-5.91
	42	9.67	2.08	2.4E+02	9.14	2.38	4.9E+02	-5.54
	43	9.83	2.10	2.4E+02	9.28	2.32	4.9E+02	-5.62
	44	9.75	2.08	2.4E+02	9.22	2.30	4.7E+02	-5.45
	45	9.68	2.09	2.4E+02	9.14	2.31	5.0E+02	-5.53
	46	9.77	2.09	2.4E+02	9.23	2.38	4.8E+02	-5.56
	47	9.76	2.07	2.4E+02	9.22	2.31	4.8E+02	-5.56
	48	9.74	2.09	2.4E+02	9.20	2.31	4.8E+02	-5.52
	49	9.65	2.06	2.4E+02	9.12	2.46	4.8E+02	-5.49
	50	9.84	2.15	2.4E+02	9.27	2.40	5.0E+02	-5.80
	51	9.64	2.11	2.4E+02	9.10	2.41	4.9E+02	-5.58
	52	10.11	2.17	2.4E+02	9.51	2.44	4.9E+02	-5.88
	53	9.51	2.05	2.5E+02	8.98	2.31	5.0E+02	-5.54
	54	9.78	2.13	2.4E+02	9.20	2.39	5.0E+02	-5.93
	55	9.79	2.10	2.4E+02	9.24	2.34	4.9E+02	-5.61
	56	9.73	2.09	2.4E+02	9.19	2.32	4.8E+02	-5.49
	57	9.74	2.09	2.3E+02	9.19	2.29	4.6E+02	-5.61
	58	9.92	2.14	2.4E+02	9.35	2.34	5.0E+02	-5.73
	59	9.79	2.11	2.4E+02	9.23	2.31	4.9E+02	-5.73
	60	9.85	2.15	2.4E+02	9.28	2.37	5.1E+02	-5.78
	61	9.84	2.13	2.4E+02	9.28	2.35	5.0E+02	-5.64
	62	9.88	2.16	2.4E+02	9.32	2.36	4.9E+02	-5.66
	63	9.72	2.11	2.4E+02	9.18	2.33	4.9E+02	-5.56
	64	10.17	2.19	2.4E+02	9.58	2.40	4.9E+02	-5.83
	65	9.68	2.10	2.4E+02	9.14	2.31	4.8E+02	-5.59
	66	9.63	2.09	2.3E+02	9.11	2.29	4.6E+02	-5.45
	67	9.77	2.11	2.3E+02	9.23	2.31	4.6E+02	-5.50
	68	10.05	2.21	2.4E+02	9.46	2.41	5.0E+02	-5.91
	69	9.65	2.09	2.3E+02	9.12	2.29	4.7E+02	-5.46
	70	9.77	2.15	2.4E+02	9.21	2.34	4.8E+02	-5.65
	71	9.82	2.18	2.4E+02	9.25	2.37	4.9E+02	-5.80
	72	9.89	2.29	2.4E+02	9.30	2.44	5.2E+02	-5.97
	73	9.99	2.10	2.4E+02	9.40	2.33	4.8E+02	-5.88
	74	10.10	2.13	2.4E+02	9.51	2.36	4.8E+02	-5.84
	75	9.93	2.13	2.4E+02	9.35	2.38	4.9E+02	-5.82
	76	10.10	2.22	2.4E+02	9.49	2.43	5.0E+02	-6.04
	77	9.68	2.08	2.4E+02	9.14	2.31	4.7E+02	-5.61

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/10/8				Lot No: A,B,C				
Date after test: 2023/12/7								
#7 - Humidity Bias								
<i>Test conditions : 1000hr, 85deg C / 85% RH, 1WV</i>								
B	1	9.99	2.08	2.3E+02	9.42	2.32	4.9E+02	-5.71
	2	10.14	2.12	2.4E+02	9.55	2.37	5.0E+02	-5.75
	3	10.02	2.12	2.4E+02	9.45	2.37	5.0E+02	-5.76
	4	10.28	2.18	2.4E+02	9.68	2.44	5.1E+02	-5.84
	5	10.04	2.11	2.4E+02	9.47	2.34	5.0E+02	-5.72
	6	9.83	2.07	2.3E+02	9.28	2.29	4.7E+02	-5.57
	7	10.04	2.12	2.3E+02	9.47	2.35	4.8E+02	-5.74
	8	9.87	2.08	2.3E+02	9.32	2.31	4.8E+02	-5.60
	9	9.85	2.09	2.4E+02	9.28	2.33	4.9E+02	-5.76
	10	10.06	2.11	2.3E+02	9.48	2.35	4.8E+02	-5.75
	11	9.87	2.11	2.4E+02	9.30	2.34	4.9E+02	-5.74
	12	9.64	2.05	2.3E+02	9.10	2.27	4.8E+02	-5.53
	13	10.13	2.18	2.4E+02	9.53	2.41	5.1E+02	-5.94
	14	10.05	2.14	2.4E+02	9.45	2.38	4.9E+02	-5.90
	15	9.86	2.09	2.4E+02	9.30	2.34	4.9E+02	-5.72
	16	10.09	2.15	2.4E+02	9.49	2.39	5.0E+02	-5.93
	17	10.06	2.11	2.3E+02	9.47	2.36	4.9E+02	-5.83
	18	9.91	2.07	2.3E+02	9.33	2.35	4.9E+02	-5.87
	19	9.81	2.08	2.3E+02	9.24	2.35	4.8E+02	-5.80
	20	10.40	2.25	2.5E+02	9.76	2.46	5.3E+02	-6.11
	21	10.44	2.25	2.5E+02	9.81	2.44	5.3E+02	-6.04
	22	9.91	2.09	2.3E+02	9.34	2.22	4.8E+02	-5.75
	23	10.15	2.12	2.3E+02	9.56	2.33	4.8E+02	-5.80
	24	9.74	2.06	2.3E+02	9.21	2.26	4.8E+02	-5.52
	25	10.18	2.19	2.4E+02	9.58	2.39	5.1E+02	-5.89
	26	9.75	2.08	2.3E+02	9.21	2.29	4.8E+02	-5.54
	27	10.09	2.15	2.4E+02	9.51	2.36	4.9E+02	-5.80
	28	10.05	2.09	2.3E+02	9.48	2.30	4.7E+02	-5.66
	29	9.75	2.11	2.3E+02	9.20	2.33	4.8E+02	-5.63
	30	10.09	2.13	2.3E+02	9.51	2.34	4.8E+02	-5.76
	31	10.06	2.15	2.3E+02	9.46	2.34	4.8E+02	-5.90
	32	9.79	2.07	2.3E+02	9.24	2.27	4.6E+02	-5.62
	33	9.99	2.14	2.3E+02	9.40	2.36	4.9E+02	-5.88
	34	10.14	2.19	2.4E+02	9.53	2.40	5.1E+02	-6.07
	35	9.86	2.07	2.3E+02	9.30	2.30	4.7E+02	-5.69
	36	10.23	2.18	2.4E+02	9.61	2.42	5.1E+02	-6.09
	37	9.77	2.06	2.4E+02	9.22	2.25	4.8E+02	-5.60
	38	9.73	2.11	2.4E+02	9.20	2.33	4.9E+02	-5.49
	39	10.14	2.16	2.4E+02	9.56	2.38	4.9E+02	-5.65
	40	9.94	2.09	2.3E+02	9.40	2.32	4.7E+02	-5.44
	41	10.17	2.15	2.4E+02	9.60	2.38	4.9E+02	-5.67
	42	10.14	2.20	2.4E+02	9.56	2.43	5.0E+02	-5.70
	43	9.85	2.12	2.4E+02	9.31	2.35	4.9E+02	-5.47
	44	9.84	2.10	2.3E+02	9.31	2.33	4.7E+02	-5.41
	45	9.90	2.09	2.3E+02	9.36	2.33	4.8E+02	-5.45
	46	10.15	2.17	2.3E+02	9.58	2.40	4.8E+02	-5.66
	47	9.92	2.09	2.3E+02	9.38	2.33	4.7E+02	-5.45
	48	10.07	2.15	2.3E+02	9.51	2.38	4.8E+02	-5.63
	49	9.91	2.14	2.4E+02	9.35	2.37	4.9E+02	-5.63
	50	9.85	2.13	2.3E+02	9.30	2.35	4.8E+02	-5.60
	51	9.81	2.14	2.4E+02	9.26	2.35	4.9E+02	-5.64
	52	10.33	2.23	2.4E+02	9.72	2.45	5.0E+02	-5.94
	53	9.88	2.09	2.3E+02	9.32	2.32	4.7E+02	-5.60
	54	10.05	2.13	2.3E+02	9.46	2.36	4.8E+02	-5.83
	55	9.83	2.06	2.3E+02	9.29	2.30	4.8E+02	-5.51
	56	9.81	2.10	2.4E+02	9.26	2.33	5.1E+02	-5.65
	57	9.92	2.11	2.4E+02	9.36	2.32	5.0E+02	-5.66
	58	9.97	2.12	2.4E+02	9.41	2.33	4.9E+02	-5.69
	59	9.70	2.04	2.3E+02	9.17	2.27	4.8E+02	-5.41
	60	9.62	2.03	2.4E+02	9.11	2.26	4.9E+02	-5.33
	61	9.90	2.10	2.4E+02	9.34	2.32	4.9E+02	-5.60
	62	9.98	2.08	2.3E+02	9.42	2.31	4.7E+02	-5.59
	63	9.99	2.11	2.3E+02	9.43	2.33	4.8E+02	-5.62
	64	9.78	2.09	2.4E+02	9.23	2.32	4.8E+02	-5.59
	65	9.93	2.11	2.4E+02	9.37	2.33	4.9E+02	-5.69
	66	9.95	2.14	2.4E+02	9.39	2.36	4.9E+02	-5.71
	67	9.99	2.13	2.4E+02	9.42	2.35	4.9E+02	-5.73
	68	9.96	2.15	2.4E+02	9.38	2.37	5.0E+02	-5.83
	69	9.81	2.12	2.4E+02	9.25	2.35	5.0E+02	-5.75
	70	9.78	2.11	2.4E+02	9.22	2.33	5.0E+02	-5.75
	71	9.76	2.06	2.3E+02	9.21	2.30	4.8E+02	-5.69
	72	9.78	2.06	2.3E+02	9.23	2.29	4.7E+02	-5.63
	73	10.04	2.13	2.3E+02	9.46	2.35	4.9E+02	-5.76
	74	10.04	2.15	2.3E+02	9.46	2.36	4.8E+02	-5.78
	75	9.89	2.07	2.3E+02	9.35	2.30	4.6E+02	-5.52
	76	10.01	2.13	2.3E+02	9.44	2.36	4.8E+02	-5.68
	77	9.69	2.08	2.4E+02	9.15	2.30	4.9E+02	-5.52

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/10/8				Lot No: A,B,C				
Date after test: 2023/12/7								
#7 - Humidity Bias								
<i>Test conditions : 1000hr, 85deg C / 85% RH, 1WV</i>								
C	1	9.75	2.15	2.4E+02	9.19	2.36	5.1E+02	-5.73
	2	9.79	2.13	2.4E+02	9.24	2.36	4.8E+02	-5.63
	3	9.77	2.15	2.4E+02	9.21	2.40	4.9E+02	-5.69
	4	9.71	2.12	2.4E+02	9.17	2.36	4.9E+02	-5.59
	5	10.05	2.20	2.4E+02	9.47	2.46	4.9E+02	-5.79
	6	9.92	2.17	2.4E+02	9.35	2.41	5.0E+02	-5.80
	7	9.96	2.13	2.3E+02	9.40	2.37	4.6E+02	-5.63
	8	9.61	2.10	2.4E+02	9.08	2.32	4.8E+02	-5.47
	9	9.75	2.13	2.4E+02	9.20	2.37	4.9E+02	-5.72
	10	9.93	2.16	2.4E+02	9.37	2.38	4.8E+02	-5.70
	11	9.81	2.14	2.4E+02	9.25	2.36	5.0E+02	-5.73
	12	9.68	2.12	2.4E+02	9.14	2.37	4.9E+02	-5.56
	13	9.99	2.19	2.4E+02	9.41	2.43	5.1E+02	-5.81
	14	9.86	2.14	2.3E+02	9.31	2.39	4.8E+02	-5.64
	15	9.80	2.13	2.3E+02	9.25	2.36	4.8E+02	-5.57
	16	9.84	2.22	2.4E+02	9.27	2.44	5.1E+02	-5.84
	17	10.07	2.19	2.4E+02	9.47	2.44	5.2E+02	-5.91
	18	9.97	2.17	2.3E+02	9.38	2.42	5.0E+02	-5.94
	19	10.18	2.19	2.4E+02	9.59	2.44	5.0E+02	-5.79
	20	9.78	2.11	2.5E+02	9.23	2.37	5.1E+02	-5.62
	21	9.87	2.16	2.4E+02	9.29	2.45	5.1E+02	-5.84
	22	10.21	2.21	2.5E+02	9.61	2.49	5.1E+02	-5.87
	23	9.93	2.15	2.4E+02	9.35	2.43	5.1E+02	-5.80
	24	9.97	2.09	2.3E+02	9.42	2.38	4.7E+02	-5.53
	25	9.67	2.06	2.4E+02	9.14	2.31	4.7E+02	-5.53
	26	9.91	2.15	2.4E+02	9.34	2.43	4.9E+02	-5.74
	27	10.10	2.15	2.4E+02	9.53	2.41	4.8E+02	-5.68
	28	10.09	2.16	2.4E+02	9.51	2.42	4.9E+02	-5.74
	29	10.16	2.16	2.4E+02	9.57	2.89	5.1E+02	-5.77
	30	9.93	2.12	2.4E+02	9.36	2.41	5.0E+02	-5.71
	31	9.85	2.08	2.4E+02	9.30	2.47	4.9E+02	-5.55
	32	9.64	2.09	2.4E+02	9.11	2.40	5.0E+02	-5.58
	33	10.00	2.17	2.4E+02	9.41	2.59	5.2E+02	-5.91
	34	9.99	2.13	2.4E+02	9.42	2.52	5.0E+02	-5.73
	35	9.75	2.06	2.3E+02	9.21	2.39	4.8E+02	-5.53
	36	9.82	2.12	2.4E+02	9.25	2.42	5.1E+02	-5.80
	37	9.92	2.13	2.4E+02	9.35	2.40	5.0E+02	-5.78
	38	9.83	2.12	2.5E+02	9.27	2.36	5.1E+02	-5.64
	39	10.36	2.26	2.5E+02	9.75	2.59	5.1E+02	-5.88
	40	9.87	2.17	2.4E+02	9.31	2.40	4.9E+02	-5.60
	41	10.25	2.23	2.5E+02	9.65	2.46	5.1E+02	-5.84
	42	9.85	2.10	2.4E+02	9.31	2.33	4.8E+02	-5.56
	43	10.24	2.19	2.4E+02	9.65	2.42	5.0E+02	-5.73
	44	10.01	2.11	2.4E+02	9.46	2.35	4.8E+02	-5.57
	45	9.74	2.11	2.4E+02	9.20	2.36	4.9E+02	-5.57
	46	10.13	2.15	2.4E+02	9.55	2.40	5.0E+02	-5.74
	47	9.89	2.13	2.4E+02	9.33	2.37	5.0E+02	-5.63
	48	9.99	2.16	2.4E+02	9.41	2.39	5.0E+02	-5.77
	49	9.67	2.07	2.4E+02	9.15	2.33	4.8E+02	-5.47
	50	10.02	2.19	2.4E+02	9.44	2.76	5.2E+02	-5.78
	51	10.05	2.11	2.4E+02	9.48	2.30	4.9E+02	-5.75
	52	9.93	2.12	2.4E+02	9.36	2.39	5.0E+02	-5.71
	53	9.98	2.12	2.4E+02	9.40	2.38	5.0E+02	-5.76
	54	9.90	2.11	2.4E+02	9.33	2.38	5.1E+02	-5.79
	55	10.04	2.17	2.4E+02	9.47	2.39	4.9E+02	-5.68
	56	9.91	2.12	2.4E+02	9.35	2.35	5.0E+02	-5.62
	57	9.85	2.11	2.4E+02	9.31	2.36	4.8E+02	-5.52
	58	9.94	2.10	2.3E+02	9.39	2.32	4.7E+02	-5.52
	59	10.15	2.17	2.5E+02	9.56	2.40	5.0E+02	-5.73
	60	9.77	2.08	2.4E+02	9.24	2.31	4.8E+02	-5.41
	61	9.75	2.07	2.4E+02	9.22	2.29	4.8E+02	-5.43
	62	10.11	2.18	2.4E+02	9.53	2.39	5.0E+02	-5.77
	63	9.77	2.12	2.4E+02	9.23	2.34	5.0E+02	-5.57
	64	9.96	2.17	2.5E+02	9.39	2.40	5.0E+02	-5.71
	65	10.12	2.15	2.4E+02	9.54	2.38	5.0E+02	-5.71
	66	9.92	2.15	2.4E+02	9.35	2.38	5.1E+02	-5.76
	67	9.90	2.12	2.4E+02	9.34	2.34	5.0E+02	-5.64
	68	10.00	2.12	2.4E+02	9.44	2.36	4.9E+02	-5.61
	69	9.92	2.13	2.4E+02	9.35	2.35	5.0E+02	-5.68
	70	10.01	2.14	2.4E+02	9.44	2.37	5.0E+02	-5.71
	71	9.59	2.06	2.4E+02	9.06	2.31	5.0E+02	-5.51
	72	9.89	2.10	2.4E+02	9.33	2.35	5.1E+02	-5.69
	73	10.08	2.15	2.4E+02	9.49	2.35	5.0E+02	-5.87
	74	9.92	2.07	2.3E+02	9.36	2.30	4.8E+02	-5.56
	75	9.76	2.07	2.4E+02	9.23	2.30	4.8E+02	-5.47
	76	10.21	2.18	2.4E+02	9.61	2.39	5.0E+02	-5.90
	77	9.96	2.14	2.4E+02	9.39	2.36	5.0E+02	-5.71

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57						
Date before test: 2023/9/13				Lot No: A,B,C						
Date after test: 2023/11/3										
#7 - Humidity Bias										
<i>Test conditions : 1000hr , 85deg C / 85% RH , 1.3V</i>										
No. of samples:	77			Initial readings				Final readings		
No. of lots:	3			Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00		5.0E+01			5.00		2.5E+00	
	upper	11.00		2.50					12.50	
Measurement Statistics	mean	9.844	2.116	8.98E+02	9.549	2.162	9.68E+02	-2.997		
	maximum	10.28	2.30	1.0E+03	9.94	2.29	1.1E+03	-2.62		
	minimum	9.41	2.02	7.7E+02	9.15	2.07	8.6E+02	-3.56		
	standard deviation	0.1422	0.0379	4.347E+01	0.1320	0.0435	5.425E+01	0.2170		
Test Data										
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %		
A	1	9.78	2.10	9.3E+02	9.49	2.11	9.8E+02	-2.93		
	2	9.57	2.07	1.0E+03	9.31	2.14	1.1E+03	-2.69		
	3	9.47	2.06	9.6E+02	9.21	2.11	1.0E+03	-2.69		
	4	10.03	2.13	8.8E+02	9.75	2.19	9.6E+02	-2.79		
	5	9.76	2.09	8.9E+02	9.50	2.16	9.9E+02	-2.70		
	6	9.76	2.12	9.0E+02	9.49	2.18	1.0E+03	-2.69		
	7	10.10	2.16	8.6E+02	9.83	2.22	9.1E+02	-2.73		
	8	9.79	2.09	9.0E+02	9.53	2.16	9.9E+02	-2.74		
	9	9.93	2.13	9.0E+02	9.65	2.20	9.2E+02	-2.77		
	10	9.81	2.07	9.0E+02	9.55	2.17	9.7E+02	-2.69		
	11	9.95	2.15	8.6E+02	9.66	2.21	9.4E+02	-2.85		
	12	10.07	2.15	8.3E+02	9.78	2.21	9.3E+02	-2.87		
	13	9.99	2.17	8.5E+02	9.71	2.22	9.2E+02	-2.82		
	14	9.63	2.07	1.0E+03	9.38	2.13	1.0E+03	-2.67		
	15	9.78	2.10	9.3E+02	9.51	2.16	1.0E+03	-2.73		
	16	9.87	2.15	9.3E+02	9.59	2.20	9.5E+02	-2.89		
	17	9.75	2.12	9.4E+02	9.47	2.17	1.0E+03	-2.81		
	18	9.50	2.08	9.6E+02	9.23	2.13	1.0E+03	-2.82		
	19	9.63	2.06	9.2E+02	9.36	2.20	9.6E+02	-2.79		
	20	9.75	2.06	9.8E+02	9.46	2.10	1.1E+03	-2.93		
	21	9.96	2.14	8.7E+02	9.67	2.21	9.2E+02	-2.90		
	22	9.83	2.07	9.3E+02	9.56	2.16	9.8E+02	-2.74		
	23	9.74	2.08	9.1E+02	9.47	2.16	1.0E+03	-2.74		
	24	9.59	2.02	9.4E+02	9.33	2.11	1.1E+03	-2.70		
	25	9.51	2.04	9.0E+02	9.25	2.10	1.0E+03	-2.70		
	26	9.67	2.09	8.9E+02	9.40	2.16	1.0E+03	-2.85		
	27	9.64	2.04	9.3E+02	9.37	2.11	9.2E+02	-2.74		
	28	9.80	2.09	8.5E+02	9.52	2.15	8.7E+02	-2.85		
	29	9.87	2.08	8.6E+02	9.59	2.15	9.2E+02	-2.79		
	30	9.78	2.09	8.3E+02	9.50	2.14	9.5E+02	-2.90		
	31	9.48	2.03	9.2E+02	9.22	2.09	9.9E+02	-2.71		
	32	10.00	2.13	9.1E+02	9.71	2.19	9.9E+02	-2.94		
	33	9.82	2.06	9.0E+02	9.54	2.13	9.0E+02	-2.83		
	34	9.96	2.15	8.8E+02	9.67	2.21	9.0E+02	-2.92		
	35	9.78	2.11	9.5E+02	9.51	2.15	9.9E+02	-2.83		
	36	9.82	2.13	9.0E+02	9.53	2.17	9.8E+02	-2.97		
	37	9.65	2.06	9.6E+02	9.39	2.13	1.0E+03	-2.74		
	38	9.68	2.05	9.4E+02	9.41	2.12	1.1E+03	-2.77		
	39	9.96	2.15	9.0E+02	9.67	2.22	9.8E+02	-2.90		
	40	9.67	2.05	9.5E+02	9.40	2.12	1.0E+03	-2.76		
	41	9.80	2.13	9.2E+02	9.52	2.24	9.8E+02	-2.82		
	42	9.85	2.08	8.6E+02	9.58	2.15	9.9E+02	-2.81		
	43	9.76	2.09	9.2E+02	9.49	2.15	1.1E+03	-2.77		
	44	9.70	2.08	9.3E+02	9.43	2.14	1.0E+03	-2.85		
	45	9.57	2.06	9.3E+02	9.31	2.12	1.0E+03	-2.78		
	46	10.02	2.12	8.6E+02	9.74	2.19	9.0E+02	-2.83		
	47	10.05	2.16	8.8E+02	9.77	2.23	9.9E+02	-2.83		
	48	9.67	2.07	8.5E+02	9.41	2.14	9.7E+02	-2.75		
	49	9.67	2.05	9.4E+02	9.42	2.13	9.4E+02	-2.62		
	50	9.94	2.10	9.3E+02	9.67	2.17	9.5E+02	-2.77		
	51	9.69	2.09	8.8E+02	9.42	2.16	1.0E+03	-2.76		
	52	9.63	2.08	8.8E+02	9.36	2.15	9.9E+02	-2.80		
	53	9.96	2.14	8.6E+02	9.67	2.21	9.5E+02	-2.88		
	54	9.82	2.09	9.2E+02	9.53	2.16	9.4E+02	-2.97		
	55	9.94	2.20	9.6E+02	9.65	2.21	1.1E+03	-2.91		
	56	9.77	2.12	9.1E+02	9.49	2.19	1.1E+03	-2.92		
	57	10.11	2.21	9.5E+02	9.81	2.26	9.7E+02	-2.96		
	58	9.87	2.08	9.4E+02	9.59	2.16	1.0E+03	-2.84		
	59	9.56	2.06	9.8E+02	9.30	2.11	1.0E+03	-2.73		
	60	9.63	2.09	9.1E+02	9.36	2.14	1.0E+03	-2.77		
	61	9.75	2.05	9.5E+02	9.48	2.11	1.0E+03	-2.76		
	62	9.75	2.09	9.2E+02	9.47	2.16	1.0E+03	-2.82		
	63	9.83	2.13	8.9E+02	9.54	2.19	9.5E+02	-2.91		
	64	9.79	2.12	9.0E+02	9.51	2.18	9.1E+02	-2.88		
	65	9.63	2.07	9.3E+02	9.36	2.13	1.1E+03	-2.79		
	66	9.71	2.08	8.7E+02	9.44	2.14	9.6E+02	-2.82		
	67	9.56	2.07	9.2E+02	9.30	2.13	9.4E+02	-2.80		
	68	9.73	2.10	9.7E+02	9.45	2.16	9.7E+02	-2.87		
	69	9.92	2.12	8.5E+02	9.63	2.18	9.5E+02	-2.89		
	70	9.95	2.20	8.5E+02	9.65	2.26	9.1E+02	-2.98		
	71	9.82	2.10	8.9E+02	9.54	2.17	9.9E+02	-2.84		
	72	9.92	2.30	9.2E+02	9.62	2.28	8.7E+02	-3.01		
	73	9.76	2.07	1.0E+03	9.48	2.13	1.0E+03	-2.85		
	74	9.77	2.09	9.7E+02	9.50	2.16	1.0E+03	-2.85		
	75	9.76	2.13	9.5E+02	9.47	2.18	1.0E+03	-2.97		
	76	9.56	2.07	9.2E+02	9.29	2.11	1.0E+03	-2.80		
	77	9.69	2.12	1.0E+03	9.41	2.16	1.0E+03	-2.89		

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/9/13				Lot No: A,B,C				
Date after test: 2023/11/3								
#7 - Humidity Bias								
<i>Test conditions : 1000hr , 85deg C / 85% RH , 1.3V</i>								
B	1	9.89	2.10	8.9E+02	9.59	2.18	9.4E+02	-3.01
	2	9.72	2.07	9.4E+02	9.44	2.14	1.0E+03	-2.88
	3	9.74	2.10	8.4E+02	9.46	2.17	9.5E+02	-2.89
	4	10.05	2.12	8.4E+02	9.76	2.19	9.5E+02	-2.88
	5	9.95	2.13	8.8E+02	9.66	2.18	9.2E+02	-2.90
	6	9.95	2.09	9.0E+02	9.67	2.14	9.8E+02	-2.84
	7	9.75	2.08	8.6E+02	9.47	2.14	9.6E+02	-2.87
	8	10.03	2.10	8.5E+02	9.74	2.17	8.9E+02	-2.88
	9	9.93	2.06	9.2E+02	9.65	2.12	9.9E+02	-2.78
	10	9.71	2.06	8.8E+02	9.44	2.12	9.7E+02	-2.82
	11	9.93	2.08	8.3E+02	9.65	2.14	9.6E+02	-2.80
	12	9.91	2.13	8.2E+02	9.62	2.20	8.7E+02	-2.90
	13	10.11	2.11	8.6E+02	9.82	2.18	9.1E+02	-2.86
	14	9.79	2.09	8.6E+02	9.51	2.16	9.2E+02	-2.87
	15	9.90	2.07	8.6E+02	9.62	2.14	9.1E+02	-2.81
	16	9.87	2.10	8.7E+02	9.59	2.17	9.3E+02	-2.87
	17	9.86	2.10	8.5E+02	9.58	2.17	9.7E+02	-2.92
	18	9.80	2.10	8.6E+02	9.51	2.16	1.0E+03	-2.94
	19	9.75	2.13	9.1E+02	9.47	2.27	9.5E+02	-2.86
	20	9.78	2.12	8.9E+02	9.51	2.22	9.3E+02	-2.85
	21	9.71	2.12	8.4E+02	9.43	2.26	9.3E+02	-2.89
	22	9.72	2.13	8.7E+02	9.44	2.22	9.8E+02	-2.88
	23	9.78	2.13	9.4E+02	9.50	2.23	9.4E+02	-2.86
	24	9.94	2.17	8.3E+02	9.65	2.28	8.9E+02	-2.95
	25	10.06	2.14	8.1E+02	9.77	2.23	9.1E+02	-2.91
	26	9.96	2.13	8.4E+02	9.67	2.22	8.7E+02	-2.92
	27	10.10	2.13	8.5E+02	9.81	2.21	9.1E+02	-2.90
	28	9.83	2.12	8.5E+02	9.55	2.20	9.3E+02	-2.86
	29	10.13	2.17	7.7E+02	9.83	2.24	8.8E+02	-2.90
	30	9.80	2.13	8.2E+02	9.52	2.21	8.9E+02	-2.86
	31	9.87	2.12	8.7E+02	9.59	2.21	9.2E+02	-2.88
	32	9.74	2.10	8.8E+02	9.46	2.18	9.3E+02	-2.87
	33	9.93	2.12	8.6E+02	9.65	2.21	8.7E+02	-2.83
	34	9.79	2.11	9.0E+02	9.51	2.20	9.0E+02	-2.86
	35	9.76	2.13	8.5E+02	9.48	2.22	9.4E+02	-2.92
	36	9.80	2.14	8.4E+02	9.52	2.22	9.8E+02	-2.91
	37	9.77	2.12	9.1E+02	9.48	2.17	9.7E+02	-2.93
	38	9.86	2.13	9.0E+02	9.57	2.17	9.6E+02	-2.94
	39	10.09	2.18	8.4E+02	9.79	2.21	8.7E+02	-3.00
	40	9.78	2.10	9.3E+02	9.50	2.15	9.5E+02	-2.90
	41	9.86	2.11	9.1E+02	9.57	2.16	1.0E+03	-2.90
	42	9.91	2.10	9.2E+02	9.63	2.15	9.9E+02	-2.87
	43	9.80	2.09	9.3E+02	9.52	2.15	1.0E+03	-2.83
	44	9.93	2.09	8.9E+02	9.64	2.16	9.0E+02	-2.86
	45	9.84	2.12	9.1E+02	9.55	2.17	9.8E+02	-2.90
	46	9.78	2.13	8.5E+02	9.49	2.19	9.2E+02	-2.95
	47	9.83	2.13	8.4E+02	9.54	2.18	9.2E+02	-2.99
	48	10.03	2.13	8.7E+02	9.73	2.18	9.4E+02	-3.01
	49	9.83	2.15	8.7E+02	9.53	2.21	9.2E+02	-3.06
	50	9.84	2.14	8.6E+02	9.55	2.18	9.3E+02	-3.01
	51	9.79	2.14	9.4E+02	9.49	2.19	9.4E+02	-2.98
	52	9.93	2.18	9.2E+02	9.63	2.24	9.2E+02	-3.01
	53	9.98	2.17	8.3E+02	9.67	2.25	9.2E+02	-3.02
	54	9.86	2.17	8.3E+02	9.56	2.29	9.8E+02	-3.07
	55	9.67	2.07	9.3E+02	9.40	2.21	1.0E+03	-2.86
	56	9.80	2.07	9.2E+02	9.52	2.18	1.0E+03	-2.84
	57	9.99	2.08	8.4E+02	9.71	2.18	9.1E+02	-2.80
	58	10.05	2.08	9.0E+02	9.76	2.16	9.4E+02	-2.84
	59	9.41	2.05	9.2E+02	9.15	2.13	1.0E+03	-2.76
	60	9.92	2.10	8.7E+02	9.64	2.18	9.4E+02	-2.79
	61	9.85	2.09	9.1E+02	9.56	2.16	9.7E+02	-2.90
	62	10.01	2.10	8.6E+02	9.73	2.17	9.0E+02	-2.85
	63	9.85	2.11	9.0E+02	9.56	2.20	9.6E+02	-2.91
	64	9.81	2.11	8.8E+02	9.53	2.16	9.4E+02	-2.83
	65	9.75	2.11	8.5E+02	9.47	2.19	9.4E+02	-2.84
	66	9.65	2.09	9.1E+02	9.38	2.18	9.1E+02	-2.79
	67	9.73	2.12	9.1E+02	9.46	2.21	9.2E+02	-2.81
	68	9.99	2.11	8.8E+02	9.70	2.18	9.5E+02	-2.85
	69	9.90	2.14	9.1E+02	9.60	2.22	9.0E+02	-2.97
	70	9.85	2.13	9.1E+02	9.55	2.20	9.2E+02	-2.99
	71	9.97	2.12	8.2E+02	9.67	2.18	9.4E+02	-2.99
	72	9.91	2.14	8.0E+02	9.62	2.19	1.0E+03	-2.94
	73	9.81	2.14	8.7E+02	9.52	2.20	1.0E+03	-2.95
	74	9.82	2.16	9.2E+02	9.53	2.21	1.1E+03	-2.97
	75	9.74	2.13	9.4E+02	9.46	2.18	1.0E+03	-2.91
	76	9.87	2.14	8.7E+02	9.58	2.19	9.8E+02	-2.99
	77	10.03	2.17	8.6E+02	9.73	2.23	9.5E+02	-2.97

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/9/13				Lot No: A,B,C				
Date after test: 2023/11/3								
#7 - Humidity Bias								
<i>Test conditions : 1000hr , 85deg C / 85% RH , 1.3V</i>								
C	1	9.90	2.10	9.0E+02	9.58	2.12	9.9E+02	-3.19
	2	9.93	2.13	9.0E+02	9.61	2.12	1.0E+03	-3.26
	3	9.95	2.16	9.0E+02	9.63	2.14	9.5E+02	-3.29
	4	9.99	2.15	8.7E+02	9.67	2.14	9.6E+02	-3.24
	5	9.82	2.12	9.1E+02	9.51	2.10	1.0E+03	-3.17
	6	10.02	2.18	9.1E+02	9.69	2.13	9.9E+02	-3.22
	7	9.85	2.16	8.6E+02	9.53	2.14	1.0E+03	-3.21
	8	9.77	2.13	9.5E+02	9.46	2.11	9.7E+02	-3.16
	9	9.96	2.13	8.6E+02	9.64	2.11	9.2E+02	-3.26
	10	9.80	2.13	8.9E+02	9.49	2.08	9.4E+02	-3.16
	11	9.87	2.15	9.0E+02	9.54	2.12	1.0E+03	-3.32
	12	9.94	2.12	8.2E+02	9.62	2.10	9.1E+02	-3.25
	13	9.87	2.16	9.0E+02	9.55	2.11	9.4E+02	-3.25
	14	9.72	2.09	9.6E+02	9.42	2.08	1.1E+03	-3.04
	15	9.98	2.14	9.3E+02	9.65	2.11	9.6E+02	-3.32
	16	9.79	2.12	9.2E+02	9.45	2.08	9.2E+02	-3.52
	17	9.95	2.16	9.1E+02	9.60	2.11	8.9E+02	-3.56
	18	9.79	2.10	8.9E+02	9.44	2.07	8.9E+02	-3.54
	19	9.73	2.14	9.2E+02	9.40	2.14	1.0E+03	-3.38
	20	9.74	2.13	9.2E+02	9.42	2.13	1.0E+03	-3.31
	21	9.62	2.10	9.7E+02	9.30	2.08	1.0E+03	-3.37
	22	9.83	2.15	8.5E+02	9.49	2.15	9.5E+02	-3.46
	23	9.84	2.15	8.9E+02	9.51	2.16	9.8E+02	-3.36
	24	9.89	2.16	9.2E+02	9.56	2.17	9.7E+02	-3.36
	25	9.72	2.12	8.8E+02	9.40	2.13	1.0E+03	-3.35
	26	10.01	2.13	9.0E+02	9.68	2.17	9.3E+02	-3.32
	27	9.75	2.14	9.0E+02	9.43	2.15	9.3E+02	-3.25
	28	10.08	2.15	8.5E+02	9.75	2.17	9.2E+02	-3.26
	29	9.94	2.14	9.0E+02	9.60	2.14	9.9E+02	-3.41
	30	9.96	2.17	8.0E+02	9.62	2.18	8.9E+02	-3.40
	31	9.91	2.12	9.1E+02	9.60	2.15	9.6E+02	-3.17
	32	9.68	2.11	9.2E+02	9.37	2.13	1.0E+03	-3.24
	33	9.77	2.11	9.3E+02	9.46	2.12	1.0E+03	-3.20
	34	9.86	2.11	9.3E+02	9.54	2.13	9.4E+02	-3.30
	35	9.86	2.12	9.1E+02	9.54	2.12	9.2E+02	-3.28
	36	9.80	2.12	9.1E+02	9.49	2.14	9.6E+02	-3.21
	37	10.08	2.09	9.4E+02	9.76	2.10	1.1E+03	-3.26
	38	9.94	2.11	8.9E+02	9.62	2.12	9.8E+02	-3.24
	39	9.72	2.11	9.1E+02	9.41	2.12	1.1E+03	-3.21
	40	9.86	2.06	9.5E+02	9.55	2.07	9.5E+02	-3.14
	41	9.98	2.09	9.0E+02	9.67	2.11	1.0E+03	-3.10
	42	10.28	2.18	9.3E+02	9.94	2.20	9.3E+02	-3.28
	43	9.89	2.13	8.9E+02	9.57	2.15	1.1E+03	-3.28
	44	9.83	2.10	9.8E+02	9.52	2.12	9.2E+02	-3.18
	45	9.91	2.12	8.8E+02	9.59	2.14	9.6E+02	-3.24
	46	10.13	2.16	8.6E+02	9.80	2.17	9.0E+02	-3.29
	47	9.73	2.07	9.7E+02	9.42	2.09	1.0E+03	-3.19
	48	9.88	2.12	8.6E+02	9.57	2.14	9.8E+02	-3.20
	49	10.16	2.22	8.6E+02	9.81	2.24	9.0E+02	-3.45
	50	9.83	2.13	9.1E+02	9.51	2.15	9.9E+02	-3.27
	51	9.94	2.15	9.5E+02	9.60	2.16	9.8E+02	-3.34
	52	9.95	2.14	8.9E+02	9.62	2.15	8.6E+02	-3.32
	53	10.10	2.12	8.6E+02	9.76	2.13	9.1E+02	-3.29
	54	9.93	2.11	9.0E+02	9.58	2.07	9.7E+02	-3.46
	55	9.97	2.17	9.0E+02	9.63	2.19	9.6E+02	-3.41
	56	9.95	2.12	8.8E+02	9.63	2.13	1.0E+03	-3.31
	57	9.71	2.12	9.0E+02	9.40	2.14	1.0E+03	-3.19
	58	9.74	2.10	9.5E+02	9.43	2.10	9.9E+02	-3.27
	59	9.81	2.14	8.7E+02	9.51	2.17	9.9E+02	-3.09
	60	9.98	2.12	9.8E+02	9.66	2.13	1.0E+03	-3.21
	61	9.78	2.11	8.8E+02	9.49	2.13	1.1E+03	-3.02
	62	9.74	2.11	1.0E+03	9.43	2.12	9.7E+02	-3.25
	63	9.88	2.17	8.6E+02	9.56	2.16	9.4E+02	-3.22
	64	10.03	2.15	8.7E+02	9.71	2.16	9.5E+02	-3.19
	65	9.85	2.16	9.5E+02	9.53	2.16	1.0E+03	-3.25
	66	9.89	2.14	8.5E+02	9.56	2.14	9.8E+02	-3.31
	67	9.90	2.15	9.3E+02	9.57	2.15	9.5E+02	-3.26
	68	10.07	2.20	9.0E+02	9.73	2.22	9.9E+02	-3.38
	69	9.82	2.15	9.5E+02	9.49	2.16	9.8E+02	-3.34
	70	9.83	2.14	9.0E+02	9.50	2.18	8.7E+02	-3.35
	71	10.02	2.13	8.5E+02	9.69	2.15	8.7E+02	-3.33
	72	9.79	2.10	9.2E+02	9.47	2.12	9.6E+02	-3.29
	73	9.73	2.07	9.9E+02	9.41	2.08	1.0E+03	-3.27
	74	9.91	2.07	9.0E+02	9.59	2.07	1.0E+03	-3.23
	75	10.04	2.17	8.5E+02	9.71	2.17	9.4E+02	-3.35
	76	9.92	2.08	9.7E+02	9.61	2.08	1.0E+03	-3.11
	77	10.17	2.18	8.6E+02	9.85	2.17	9.7E+02	-3.16

AEC-Q200 Summary of Test Results

AEC-Q200 Summary of Test Results				Murata P/N: GCM32ER71E106KA57							
Manufacturing Location: Philippine Manufacturing Co. of Murata				Lot No: A,B,C							
Date before test: 2023/10/8				Date after test: 2023/12/1							
#8 - High Temperature Operating Life											
Test conditions : 1000hr , 125deg C , 2WV											
No. of samples:	77			Initial readings				Final readings			
No. of lots:	3			Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %	
Spec limits	lower	9.00			5.0E+01			5.0E+00			-12.50
	upper	11.00			2.50			5.00			12.50
Measurement Statistics	mean	9.847			2.103			8.10E+01			9.594
	maximum	10.37			2.25			9.1E+01			10.11
	minimum	9.44			2.02			6.9E+01			9.23
	standard deviation	0.1514			0.0414			3.73E+00			0.1445
		0.0605			5.635E+00			0.2836			
Test Data											
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %			
A	1	9.82	2.11	8.9E+01	9.55	2.18	1.2E+02	-2.77			
	2	9.68	2.04	7.9E+01	9.43	2.12	1.1E+02	-2.50			
	3	10.30	2.20	8.7E+01	10.04	2.28	1.2E+02	-2.54			
	4	9.82	2.07	7.8E+01	9.58	2.16	1.1E+02	-2.42			
	5	9.85	2.10	8.2E+01	9.61	2.20	1.1E+02	-2.44			
	6	9.70	2.07	8.1E+01	9.47	2.17	1.1E+02	-2.40			
	7	9.76	2.03	7.6E+01	9.53	2.13	1.0E+02	-2.37			
	8	9.95	2.10	8.1E+01	9.70	2.19	1.1E+02	-2.51			
	9	9.98	2.09	8.0E+01	9.73	2.17	1.1E+02	-2.50			
	10	9.90	2.14	8.8E+01	9.64	2.22	1.2E+02	-2.59			
	11	10.02	2.10	8.0E+01	9.76	2.18	1.1E+02	-2.56			
	12	9.78	2.11	8.7E+01	9.52	2.19	1.2E+02	-2.64			
	13	9.88	2.11	8.3E+01	9.62	2.19	1.1E+02	-2.64			
	14	10.12	2.17	8.7E+01	9.84	2.25	1.2E+02	-2.70			
	15	10.15	2.18	8.5E+01	9.87	2.26	1.2E+02	-2.81			
	16	10.20	2.20	8.7E+01	9.90	2.28	1.2E+02	-2.93			
	17	9.92	2.14	8.5E+01	9.63	2.21	1.2E+02	-2.96			
	18	9.72	2.05	7.5E+01	9.42	2.13	1.1E+02	-3.10			
	19	9.88	2.13	8.6E+01	9.61	2.19	1.2E+02	-2.72			
	20	10.09	2.14	8.3E+01	9.83	2.20	1.1E+02	-2.55			
	21	9.96	2.10	8.0E+01	9.71	2.17	1.1E+02	-2.45			
	22	9.90	2.10	8.4E+01	9.66	2.17	1.1E+02	-2.44			
	23	10.00	2.12	8.3E+01	9.75	2.19	1.1E+02	-2.44			
	24	9.72	2.07	8.2E+01	9.49	2.14	1.1E+02	-2.38			
	25	10.15	2.14	8.4E+01	9.89	2.21	1.1E+02	-2.49			
	26	9.71	2.06	7.9E+01	9.48	2.14	1.1E+02	-2.43			
	27	9.96	2.10	7.9E+01	9.71	2.17	1.1E+02	-2.46			
	28	9.88	2.09	8.3E+01	9.64	2.17	1.1E+02	-2.45			
	29	9.91	2.12	8.7E+01	9.66	2.20	1.2E+02	-2.55			
	30	9.75	2.06	8.0E+01	9.50	2.13	1.1E+02	-2.48			
	31	10.01	2.13	8.0E+01	9.75	2.20	1.1E+02	-2.63			
	32	10.04	2.14	8.5E+01	9.77	2.20	1.2E+02	-2.69			
	33	9.99	2.12	8.0E+01	9.72	2.18	1.1E+02	-2.76			
	34	9.88	2.10	7.8E+01	9.60	2.16	1.1E+02	-2.86			
	35	9.76	2.08	7.9E+01	9.48	2.17	1.1E+02	-2.94			
	36	9.89	2.11	7.8E+01	9.56	2.19	1.1E+02	-3.34			
	37	9.95	2.13	7.9E+01	9.70	2.24	1.1E+02	-2.50			
	38	9.69	2.07	7.6E+01	9.47	2.21	1.0E+02	-2.28			
	39	10.12	2.19	9.1E+01	9.88	2.29	1.2E+02	-2.39			
	40	10.19	2.18	8.4E+01	9.96	2.26	1.1E+02	-2.27			
	41	9.75	2.08	7.9E+01	9.54	2.16	1.0E+02	-2.18			
	42	9.86	2.10	7.7E+01	9.64	2.19	1.1E+02	-2.23			
	43	9.95	2.14	8.5E+01	9.73	2.22	1.2E+02	-2.26			
	44	9.74	2.07	7.5E+01	9.52	2.16	1.0E+02	-2.28			
	45	9.93	2.11	8.2E+01	9.70	2.24	1.1E+02	-2.30			
	46	9.85	2.09	7.4E+01	9.61	2.19	1.1E+02	-2.39			
	47	9.97	2.14	8.1E+01	9.73	2.27	1.1E+02	-2.45			
	48	9.87	2.08	7.5E+01	9.63	2.19	1.0E+02	-2.44			
	49	9.84	2.08	7.3E+01	9.59	2.17	1.0E+02	-2.50			
	50	9.78	2.10	8.1E+01	9.53	2.19	1.1E+02	-2.55			
	51	9.65	2.08	8.1E+01	9.40	2.16	1.1E+02	-2.59			
	52	9.68	2.07	7.7E+01	9.42	2.15	1.0E+02	-2.67			
	53	9.64	2.07	7.7E+01	9.37	2.14	1.1E+02	-2.81			
	54	9.63	2.10	8.0E+01	9.33	2.17	1.1E+02	-3.15			
	55	9.70	2.07	8.0E+01	9.44	2.20	1.1E+02	-2.68			
	56	10.01	2.15	8.6E+01	9.76	2.31	1.2E+02	-2.51			
	57	10.07	2.21	8.7E+01	9.82	2.46	1.2E+02	-2.47			
	58	10.04	2.14	8.3E+01	9.80	2.26	1.1E+02	-2.40			
	59	10.00	2.19	8.6E+01	9.76	2.33	1.2E+02	-2.40			
	60	9.82	2.25	7.8E+01	9.59	2.72	1.0E+02	-2.32			
	61	9.76	2.08	7.8E+01	9.54	2.18	1.0E+02	-2.28			
	62	9.90	2.12	8.1E+01	9.67	2.24	1.1E+02	-2.36			
	63	10.13	2.22	8.9E+01	9.88	2.30	1.2E+02	-2.44			
	64	9.94	2.12	8.1E+01	9.70	2.22	1.1E+02	-2.38			
	65	10.05	2.18	8.8E+01	9.81	2.30	1.2E+02	-2.42			
	66	9.95	2.11	8.0E+01	9.71	2.23	1.1E+02	-2.39			
	67	10.37	2.21	8.8E+01	10.11	2.36	1.2E+02	-2.51			
	68	9.90	2.08	7.9E+01	9.66	2.17	1.1E+02	-2.43			
	69	9.73	2.08	7.9E+01	9.49	2.24	1.1E+02	-2.47			
	70	9.75	2.06	7.9E+01	9.50	2.19	1.1E+02	-2.53			
	71	9.86	2.11	8.3E+01	9.59	2.24	1.1E+02	-2.74			
	72	10.00	2.18	8.9E+01	9.69	2.31	1.3E+02	-3.12			
	73	10.05	2.18	8.8E+01	9.72	2.24	1.3E+02	-3.21			
	74	9.79	2.07	7.6E+01	9.50	2.15	1.1E+02	-2.88			
	75	10.07	2.13	8.1E+01	9.79	2.21	1.1E+02	-2.78			
	76	9.84	2.09	8.3E+01	9.57	2.18	1.1E+02	-2.74			
	77	9.93	2.08	7.7E+01	9.67	2.17	1.1E+02	-2.66			

AEC-Q200 Summary of Test Results

		Murata P/N: GCM32ER71E106KA57						
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A,B,C						
Date before test:	2023/10/8	Date after test:	2023/12/1					
#8 - High Temperature Operating Life								
<i>Test conditions : 1000hr , 125deg C , 2WV</i>								
B	1	9.90	2.10	8.2E+01	9.60	2.18	1.2E+02	-3.00
	2	9.85	2.09	8.1E+01	9.56	2.17	1.1E+02	-2.92
	3	9.86	2.08	8.1E+01	9.58	2.16	1.1E+02	-2.87
	4	9.81	2.10	8.5E+01	9.53	2.18	1.2E+02	-2.86
	5	9.93	2.10	8.1E+01	9.65	2.19	1.1E+02	-2.82
	6	9.93	2.09	7.9E+01	9.65	2.17	1.1E+02	-2.75
	7	9.94	2.10	8.1E+01	9.66	2.18	1.1E+02	-2.84
	8	9.69	2.06	8.3E+01	9.42	2.14	1.1E+02	-2.80
	9	9.86	2.11	8.1E+01	9.58	2.19	1.2E+02	-2.84
	10	10.05	2.14	8.4E+01	9.77	2.22	1.2E+02	-2.83
	11	9.82	2.08	7.8E+01	9.54	2.16	1.1E+02	-2.79
	12	9.52	2.06	8.7E+01	9.26	2.17	1.2E+02	-2.75
	13	9.70	2.08	8.4E+01	9.43	2.17	1.2E+02	-2.82
	14	9.78	2.11	8.7E+01	9.51	2.20	1.2E+02	-2.71
	15	9.89	2.09	7.6E+01	9.61	2.19	1.1E+02	-2.82
	16	9.90	2.07	7.9E+01	9.62	2.17	1.1E+02	-2.78
	17	9.88	2.11	8.3E+01	9.59	2.21	1.2E+02	-2.90
	18	9.93	2.09	8.1E+01	9.63	2.20	1.1E+02	-2.97
	19	10.06	2.14	8.1E+01	9.76	2.22	1.2E+02	-2.97
	20	9.85	2.09	8.3E+01	9.57	2.18	1.2E+02	-2.80
	21	9.86	2.13	8.5E+01	9.58	2.21	1.2E+02	-2.89
	22	10.07	2.14	8.0E+01	9.79	2.23	1.1E+02	-2.75
	23	9.90	2.09	7.8E+01	9.63	2.19	1.1E+02	-2.78
	24	9.98	2.12	8.0E+01	9.70	2.24	1.1E+02	-2.81
	25	9.71	2.08	8.8E+01	9.44	2.18	1.2E+02	-2.77
	26	9.92	2.09	7.6E+01	9.65	2.17	1.1E+02	-2.77
	27	9.70	2.09	8.4E+01	9.43	2.18	1.2E+02	-2.75
	28	9.93	2.10	8.4E+01	9.66	2.21	1.2E+02	-2.72
	29	9.77	2.08	8.1E+01	9.50	2.19	1.2E+02	-2.73
	30	9.79	2.10	8.5E+01	9.52	2.21	1.2E+02	-2.74
	31	9.77	2.08	7.9E+01	9.51	2.18	1.1E+02	-2.70
	32	9.87	2.10	8.2E+01	9.60	2.23	1.2E+02	-2.73
	33	10.02	2.10	7.7E+01	9.75	2.23	1.1E+02	-2.71
	34	9.82	2.11	8.4E+01	9.54	2.26	1.2E+02	-2.84
	35	9.88	2.11	8.4E+01	9.60	2.22	1.2E+02	-2.89
	36	9.64	2.07	8.4E+01	9.36	2.20	1.2E+02	-2.98
	37	9.89	2.10	8.2E+01	9.60	2.19	1.2E+02	-2.92
	38	9.82	2.10	8.0E+01	9.53	2.19	1.1E+02	-2.92
	39	9.69	2.10	8.6E+01	9.41	2.19	1.2E+02	-2.87
	40	10.01	2.15	8.2E+01	9.72	2.26	1.2E+02	-2.88
	41	9.76	2.10	8.3E+01	9.48	2.21	1.2E+02	-2.87
	42	9.98	2.11	8.0E+01	9.70	2.23	1.1E+02	-2.80
	43	9.83	2.08	7.9E+01	9.55	2.17	1.1E+02	-2.78
	44	9.67	2.09	8.0E+01	9.39	2.16	1.2E+02	-2.96
	45	9.92	2.09	7.7E+01	9.64	2.19	1.1E+02	-2.76
	46	9.80	2.10	8.5E+01	9.52	2.22	1.2E+02	-2.83
	47	9.84	2.09	7.8E+01	9.56	2.20	1.1E+02	-2.81
	48	9.70	2.09	8.3E+01	9.43	2.20	1.2E+02	-2.81
	49	9.99	2.13	8.1E+01	9.70	2.22	1.1E+02	-2.84
	50	10.05	2.15	8.2E+01	9.76	2.29	1.2E+02	-2.84
	51	9.88	2.16	8.2E+01	9.61	2.26	1.2E+02	-2.78
	52	9.86	2.14	8.5E+01	9.57	2.25	1.2E+02	-2.88
	53	9.83	2.13	8.2E+01	9.54	2.23	1.2E+02	-2.97
	54	9.84	2.13	8.1E+01	9.54	2.26	1.1E+02	-3.03
	55	9.70	2.11	8.9E+01	9.42	2.20	1.3E+02	-2.84
	56	9.82	2.15	8.0E+01	9.54	2.25	1.2E+02	-2.86
	57	9.90	2.15	8.1E+01	9.63	2.28	1.1E+02	-2.76
	58	9.98	2.13	7.8E+01	9.70	2.24	1.1E+02	-2.81
	59	9.85	2.15	8.4E+01	9.57	2.30	1.2E+02	-2.83
	60	9.87	2.14	7.9E+01	9.59	2.29	1.1E+02	-2.80
	61	9.80	2.19	8.6E+01	9.53	2.27	1.2E+02	-2.80
	62	9.73	2.15	8.5E+01	9.47	2.24	1.2E+02	-2.67
	63	9.87	2.13	8.4E+01	9.60	2.21	1.2E+02	-2.72
	64	10.10	2.19	7.3E+01	9.81	2.27	1.1E+02	-2.84
	65	9.97	2.12	7.9E+01	9.70	2.21	1.1E+02	-2.71
	66	9.90	2.11	7.7E+01	9.63	2.17	1.1E+02	-2.75
	67	9.79	2.14	8.4E+01	9.52	2.23	1.2E+02	-2.74
	68	9.95	2.14	7.9E+01	9.68	2.24	1.1E+02	-2.73
	69	9.94	2.13	8.1E+01	9.66	2.25	1.2E+02	-2.81
	70	9.64	2.09	8.3E+01	9.36	2.22	1.2E+02	-2.87
	71	9.73	2.11	8.2E+01	9.44	2.21	1.2E+02	-2.90
	72	10.04	2.10	7.6E+01	9.75	2.21	1.1E+02	-2.97
	73	9.95	2.16	7.7E+01	9.64	2.23	1.1E+02	-3.06
	74	9.81	2.12	8.4E+01	9.52	2.21	1.2E+02	-3.01
	75	9.73	2.09	8.2E+01	9.44	2.19	1.2E+02	-2.94
	76	9.91	2.14	7.7E+01	9.61	2.21	1.1E+02	-3.04
	77	9.85	2.12	8.1E+01	9.56	2.19	1.1E+02	-2.94

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata				Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/10/8				Lot No: A,B,C				
Date after test: 2023/12/1								
#8 - High Temperature Operating Life								
Test conditions : 1000hr , 125deg C , 2WV								
	1	9.84	2.09	7.7E+01	9.60	2.17	1.1E+02	-2.51
	2	9.74	2.06	7.7E+01	9.52	2.14	1.1E+02	-2.26
	3	9.76	2.07	7.8E+01	9.55	2.16	1.1E+02	-2.20
	4	9.63	2.03	7.3E+01	9.43	2.12	9.9E+01	-2.07
	5	9.80	2.08	8.2E+01	9.59	2.19	1.1E+02	-2.13
	6	9.55	2.04	7.7E+01	9.35	2.12	1.0E+02	-2.08
	7	9.66	2.04	8.0E+01	9.46	2.12	1.1E+02	-2.08
	8	9.75	2.04	8.0E+01	9.55	2.13	1.1E+02	-2.11
	9	9.66	2.05	7.9E+01	9.46	2.14	1.1E+02	-2.06
	10	9.61	2.02	7.6E+01	9.42	2.11	1.0E+02	-2.05
	11	9.90	2.14	8.8E+01	9.70	2.23	1.2E+02	-2.06
	12	9.82	2.05	7.7E+01	9.62	2.14	1.0E+02	-2.04
	13	9.52	2.04	7.9E+01	9.33	2.13	1.1E+02	-2.06
	14	9.82	2.08	7.9E+01	9.62	2.19	1.1E+02	-2.03
	15	9.87	2.11	8.2E+01	9.66	2.21	1.1E+02	-2.12
	16	9.70	2.04	7.7E+01	9.50	2.14	1.0E+02	-2.07
	17	9.90	2.07	8.0E+01	9.68	2.17	1.1E+02	-2.22
	18	9.69	2.06	8.2E+01	9.45	2.17	1.1E+02	-2.40
	19	9.50	2.06	7.7E+01	9.26	2.15	1.1E+02	-2.57
	20	9.96	2.16	8.4E+01	9.72	2.25	1.2E+02	-2.46
	21	9.73	2.11	8.2E+01	9.50	2.20	1.1E+02	-2.34
	22	9.76	2.11	8.3E+01	9.53	2.21	1.1E+02	-2.30
	23	9.53	2.05	7.7E+01	9.32	2.14	1.0E+02	-2.21
	24	9.65	2.10	8.6E+01	9.43	2.19	1.2E+02	-2.30
	25	9.90	2.09	8.0E+01	9.67	2.20	1.1E+02	-2.32
	26	9.66	2.08	8.2E+01	9.44	2.17	1.1E+02	-2.29
	27	10.07	2.18	8.7E+01	9.83	2.28	1.2E+02	-2.32
	28	9.66	2.06	7.8E+01	9.44	2.17	1.1E+02	-2.28
	29	9.70	2.05	7.4E+01	9.48	2.16	1.0E+02	-2.25
	30	9.66	2.05	7.8E+01	9.44	2.16	1.1E+02	-2.28
	31	10.00	2.13	8.1E+01	9.76	2.22	1.1E+02	-2.39
	32	10.04	2.14	8.1E+01	9.80	2.25	1.1E+02	-2.41
	33	9.76	2.10	8.3E+01	9.53	2.21	1.1E+02	-2.37
	34	10.03	2.17	8.5E+01	9.78	2.29	1.2E+02	-2.49
	35	9.66	2.08	7.6E+01	9.43	2.19	1.0E+02	-2.45
	36	9.81	2.11	8.3E+01	9.54	2.23	1.2E+02	-2.73
	37	9.96	2.16	8.6E+01	9.72	2.24	1.2E+02	-2.38
	38	9.86	2.14	8.7E+01	9.63	2.22	1.2E+02	-2.31
	39	9.72	2.07	7.6E+01	9.51	2.16	1.0E+02	-2.15
	40	9.95	2.16	8.2E+01	9.72	2.29	1.1E+02	-2.23
	41	9.65	2.07	8.0E+01	9.45	2.20	1.1E+02	-2.02
	42	9.86	2.09	7.9E+01	9.66	2.16	1.0E+02	-2.09
	43	9.98	2.15	8.6E+01	9.76	2.23	1.1E+02	-2.17
	44	9.74	2.07	8.2E+01	9.54	2.14	1.1E+02	-2.05
	45	10.07	2.15	8.4E+01	9.85	2.22	1.2E+02	-2.20
	46	9.82	2.10	7.7E+01	9.60	2.15	1.1E+02	-2.17
	47	9.61	2.06	8.1E+01	9.41	2.12	1.1E+02	-2.11
	48	9.76	2.04	7.4E+01	9.55	2.11	9.9E+01	-2.12
	49	9.81	2.09	8.1E+01	9.59	2.17	1.1E+02	-2.20
	50	9.96	2.14	8.7E+01	9.74	2.23	1.2E+02	-2.22
	51	9.83	2.06	7.4E+01	9.62	2.14	1.0E+02	-2.16
	52	9.44	2.04	8.2E+01	9.23	2.12	1.1E+02	-2.22
	53	9.65	2.08	8.2E+01	9.42	2.16	1.1E+02	-2.41
	54	9.96	2.10	8.0E+01	9.70	2.19	1.1E+02	-2.59
	55	9.73	2.06	7.9E+01	9.48	2.15	1.1E+02	-2.52
	56	9.76	2.06	8.0E+01	9.52	2.15	1.1E+02	-2.42
	57	9.81	2.08	8.0E+01	9.57	2.16	1.1E+02	-2.40
	58	9.67	2.04	7.7E+01	9.45	2.13	1.0E+02	-2.34
	59	9.94	2.08	7.7E+01	9.71	2.16	1.1E+02	-2.32
	60	9.67	2.08	8.5E+01	9.44	2.16	1.1E+02	-2.40
	61	9.68	2.08	8.4E+01	9.45	2.16	1.1E+02	-2.38
	62	9.88	2.08	8.1E+01	9.65	2.16	1.1E+02	-2.34
	63	9.76	2.07	7.9E+01	9.53	2.15	1.1E+02	-2.30
	64	9.67	2.04	7.5E+01	9.45	2.12	1.0E+02	-2.32
	65	9.97	2.09	8.1E+01	9.74	2.18	1.1E+02	-2.32
	66	9.80	2.05	7.9E+01	9.58	2.14	1.1E+02	-2.27
	67	9.88	2.08	8.2E+01	9.65	2.18	1.1E+02	-2.35
	68	9.79	2.05	7.4E+01	9.56	2.15	1.0E+02	-2.33
	69	10.13	2.14	8.6E+01	9.88	2.24	1.2E+02	-2.46
	70	9.61	2.02	7.6E+01	9.38	2.11	1.0E+02	-2.39
	71	9.62	2.05	8.0E+01	9.37	2.13	1.1E+02	-2.53
	72	9.70	2.04	7.9E+01	9.45	2.14	1.1E+02	-2.66
	73	10.06	2.14	8.3E+01	9.80	2.24	1.2E+02	-2.58
	74	9.94	2.13	8.3E+01	9.70	2.21	1.1E+02	-2.42
	75	9.66	2.04	6.9E+01	9.43	2.12	9.7E+01	-2.37
	76	9.48	2.04	7.7E+01	9.26	2.11	1.0E+02	-2.33
	77	9.93	2.10	7.6E+01	9.70	2.16	1.1E+02	-2.38

C

AEC-Q200 Summary of Test Results

		Murata P/N: GCM32ER71E106KA57					
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A					
Date before test: 2023/9/6							
#10 - Physical Dimensions							
Number of Samples: 30		Readings at Room Temp: 25C					
Number of Lots: 1		L [mm]	W [mm]	T [mm]	e1 [mm]	e2 [mm]	g [mm]
Spec limits	lower	3.50	2.70	2.70			1.0
	upper	2.90	2.30	2.30	0.30	0.30	
Measurement Statistics	mean	3.320	2.561	2.509	0.724	0.713	1.880
	maximum	3.33	2.57	2.52	0.79	0.79	1.98
	minimum	3.32	2.55	2.50	0.63	0.57	1.74
	standard deviation	0.0037	0.0047	0.0047	0.0437	0.0503	0.0659
Lot No	Sample	L [mm]	W [mm]	T [mm]	e1 [mm]	e2 [mm]	g [mm]
A	1	3.32	2.56	2.52	0.71	0.71	1.90
	2	3.32	2.56	2.52	0.75	0.69	1.88
	3	3.32	2.56	2.51	0.69	0.69	1.94
	4	3.33	2.56	2.52	0.64	0.75	1.95
	5	3.32	2.56	2.51	0.70	0.75	1.89
	6	3.32	2.57	2.50	0.78	0.79	1.74
	7	3.32	2.56	2.52	0.76	0.57	1.98
	8	3.32	2.57	2.51	0.71	0.76	1.82
	9	3.32	2.55	2.51	0.64	0.71	1.97
	10	3.32	2.55	2.51	0.75	0.71	1.84
	11	3.32	2.56	2.51	0.76	0.68	1.89
	12	3.32	2.56	2.50	0.77	0.78	1.76
	13	3.32	2.56	2.51	0.75	0.75	1.81
	14	3.32	2.56	2.51	0.77	0.75	1.81
	15	3.32	2.56	2.51	0.71	0.70	1.91
	16	3.32	2.57	2.51	0.68	0.70	1.95
	17	3.32	2.57	2.51	0.79	0.73	1.80
	18	3.32	2.57	2.51	0.78	0.78	1.77
	19	3.32	2.55	2.50	0.75	0.72	1.85
	20	3.32	2.56	2.50	0.70	0.68	1.94
	21	3.32	2.57	2.50	0.70	0.76	1.84
	22	3.32	2.55	2.51	0.70	0.76	1.85
	23	3.32	2.57	2.51	0.72	0.72	1.89
	24	3.33	2.57	2.51	0.71	0.71	1.90
	25	3.32	2.56	2.51	0.78	0.68	1.85
	26	3.32	2.57	2.51	0.71	0.71	1.90
	27	3.33	2.56	2.51	0.75	0.69	1.88
	28	3.32	2.56	2.51	0.69	0.69	1.94
	29	3.33	2.57	2.51	0.63	0.74	1.95
	30	3.32	2.56	2.50	0.76	0.57	1.98

AEC-Q200 Summary of Test Results

Murata P/N: GCM32ER71E106KA57		
Manufacturing Location: Philippine Manufacturing Co. of Murata		
#9 - External Visual		
all qualification parts	Number of failures: 0	
	Test No.	Result (pass/fail)
	3	pass
	4	pass
	5	pass
	6	pass
	7-1	pass
	7-2	pass
	8	pass
	10	pass
	12-1	pass
	12-2	pass
	12-3	pass
	13	pass
	14	pass
	15	pass
	17	pass
	18	pass
	19	pass
	21	pass
	22	pass
	23	pass

AEC-Q200 Summary of Test Results

Murata P/N: GCM32ER71E106KA57		
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A	
Date before test: 2023/10/7	Date after test: 2023/10/7	
#12 Resistance to solvents		
Number of Samples: 5 Number of Lots: 1	Test conditions A : 1 part (by volume) of isopropyl alcohol and 3 parts (by volume) of mineral spirits , 25deg C 3min immersion test conditions B : terpene defluxer, 25deg C 3min immersion test conditions C : 42 parts(by volume) of water and 1 part (by volume) of propylene glycol monomethylether and 1 part (by volume) of monoethanolamine, 63-70deg C 3min immersion	
Lot No	Sample	Number of failures: 0
A	1	No Failure
	2	No Failure
	3	No Failure
	4	No Failure
	5	No Failure

AEC-Q200 Summary of Test Results

AEC-Q200 Summary of Test Results					Murata P/N: GCM32ER71E106KA57					
Manufacturing Location: Philippine Manufacturing Co. of Murata					Lot No: A,B,C					
Date before test: 2023/10/1					Date after test: 2023/11/10					
#13 - Mechanical Shock										
Test conditions : shock pulse : 1500g's, 0.5ms, 4.7m/s, 3 times each of 6 orientations										
No. of samples:	30			Initial readings			Final readings			
No. of lots:	3			Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %
Spec limits	lower	9.00			5.0E+01			9.00		
	upper	11.00			2.50			11.00		
Measurement Statistics	mean	9.869			1.845			2.28E+02		
	maximum	10.15			1.95			2.4E+02		
	minimum	9.51			1.77			2.2E+02		
	standard deviation	0.1245			0.0373			4.624E+00		
Test Data										
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %		
A	1	9.95	1.84	2.3E+02	9.51	1.88	3.0E+02	-4.40		
	2	9.88	1.84	2.3E+02	9.44	1.86	2.9E+02	-4.49		
	3	9.83	1.82	2.3E+02	9.39	1.87	2.9E+02	-4.41		
	4	9.86	1.80	2.3E+02	9.42	1.85	2.9E+02	-4.39		
	5	9.86	1.82	2.2E+02	9.42	1.88	2.8E+02	-4.47		
	6	9.91	1.83	2.3E+02	9.47	1.86	2.9E+02	-4.48		
	7	9.98	1.83	2.3E+02	9.53	1.87	2.8E+02	-4.49		
	8	9.83	1.87	2.4E+02	9.38	1.89	3.0E+02	-4.54		
	9	9.86	1.84	2.3E+02	9.41	1.87	2.9E+02	-4.53		
	10	10.09	1.84	2.3E+02	9.64	1.86	2.8E+02	-4.50		
	11	9.86	1.83	2.3E+02	9.42	1.84	2.9E+02	-4.41		
	12	9.94	1.85	2.4E+02	9.49	1.88	2.8E+02	-4.49		
	13	9.99	1.82	2.3E+02	9.54	1.85	2.9E+02	-4.50		
	14	9.85	1.85	2.4E+02	9.40	1.88	3.0E+02	-4.51		
	15	9.88	1.84	2.3E+02	9.47	1.86	2.9E+02	-4.10		
	16	9.91	1.83	2.3E+02	9.44	1.87	2.8E+02	-4.75		
	17	9.92	1.85	2.4E+02	9.48	1.90	2.8E+02	-4.47		
	18	9.93	1.86	2.3E+02	9.49	1.89	2.8E+02	-4.46		
	19	9.73	1.79	2.2E+02	9.31	1.83	2.8E+02	-4.30		
	20	9.68	1.80	2.3E+02	9.26	1.82	2.8E+02	-4.28		
	21	9.90	1.85	2.2E+02	9.46	1.88	2.9E+02	-4.46		
	22	9.80	1.81	2.3E+02	9.37	1.82	2.8E+02	-4.39		
	23	10.01	1.82	2.2E+02	9.57	1.86	2.7E+02	-4.44		
	24	10.03	1.81	2.2E+02	9.59	1.84	2.7E+02	-4.41		
	25	9.79	1.80	2.3E+02	9.37	1.84	2.8E+02	-4.30		
	26	9.91	1.84	2.3E+02	9.47	1.87	2.8E+02	-4.44		
	27	10.00	1.83	2.2E+02	9.56	1.86	2.7E+02	-4.44		
	28	9.89	1.83	2.3E+02	9.45	1.86	2.9E+02	-4.45		
	29	10.02	1.83	2.2E+02	9.57	1.85	2.8E+02	-4.46		
	30	9.88	1.86	2.4E+02	9.44	1.92	3.0E+02	-4.51		
B	1	9.66	1.82	2.2E+02	9.23	1.82	2.9E+02	-4.42		
	2	9.92	1.90	2.2E+02	9.46	1.90	3.0E+02	-4.63		
	3	9.78	1.83	2.3E+02	9.34	1.83	2.9E+02	-4.54		
	4	9.80	1.89	2.3E+02	9.36	1.89	3.1E+02	-4.52		
	5	9.51	1.80	2.3E+02	9.08	1.80	3.1E+02	-4.51		
	6	9.90	1.89	2.4E+02	9.43	1.89	3.1E+02	-4.71		
	7	9.79	1.86	2.3E+02	9.34	1.86	3.0E+02	-4.54		
	8	10.07	1.92	2.3E+02	9.59	1.92	2.9E+02	-4.71		
	9	9.76	1.88	2.3E+02	9.32	1.88	2.9E+02	-4.50		
	10	9.78	1.84	2.3E+02	9.34	1.84	3.0E+02	-4.51		
	11	9.65	1.86	2.3E+02	9.21	1.86	2.9E+02	-4.55		
	12	9.62	1.86	2.4E+02	9.19	1.86	3.1E+02	-4.54		
	13	9.81	1.86	2.4E+02	9.37	1.86	3.0E+02	-4.50		
	14	9.81	1.94	2.4E+02	9.36	1.94	3.0E+02	-4.51		
	15	10.01	1.90	2.3E+02	9.54	1.90	2.9E+02	-4.75		
	16	9.73	1.83	2.3E+02	9.28	1.83	2.9E+02	-4.56		
	17	9.61	1.83	2.3E+02	9.18	1.83	2.9E+02	-4.52		
	18	9.83	1.85	2.2E+02	9.39	1.85	2.9E+02	-4.51		
	19	9.77	1.84	2.3E+02	9.32	1.84	2.9E+02	-4.63		
	20	10.15	1.95	2.3E+02	9.67	1.95	2.9E+02	-4.75		
	21	9.69	1.89	2.2E+02	9.27	1.89	2.8E+02	-4.35		
	22	9.94	1.87	2.3E+02	9.49	1.87	2.8E+02	-4.55		
	23	9.85	1.86	2.3E+02	9.42	1.86	2.8E+02	-4.39		
	24	9.89	1.93	2.4E+02	9.43	1.93	3.0E+02	-4.58		
	25	9.87	1.88	2.2E+02	9.43	1.88	2.8E+02	-4.50		
	26	9.76	1.86	2.3E+02	9.34	1.86	2.8E+02	-4.25		
	27	9.73	1.89	2.3E+02	9.31	1.89	2.8E+02	-4.34		
	28	9.88	1.87	2.2E+02	9.45	1.87	2.8E+02	-4.34		
	29	9.94	1.91	2.4E+02	9.49	1.91	3.0E+02	-4.61		
	30	9.72	1.81	2.3E+02	9.30	1.81	2.8E+02	-4.31		
C	1	9.68	1.77	2.3E+02	9.27	1.86	2.9E+02	-4.18		
	2	10.04	1.89	2.3E+02	9.58	1.95	3.0E+02	-4.56		
	3	9.82	1.82	2.3E+02	9.39	1.87	2.9E+02	-4.41		
	4	9.88	1.84	2.3E+02	9.45	1.94	2.8E+02	-4.29		
	5	9.94	1.84	2.3E+02	9.50	1.90	2.9E+02	-4.37		
	6	9.88	1.82	2.3E+02	9.44	1.88	2.9E+02	-4.38		
	7	9.74	1.77	2.2E+02	9.33	1.84	2.8E+02	-4.19		
	8	10.00	1.84	2.2E+02	9.56	1.89	2.8E+02	-4.42		
	9	9.85	1.79	2.2E+02	9.43	1.86	2.8E+02	-4.29		
	10	9.98	1.88	2.2E+02	9.54	1.94	2.9E+02	-4.34		
	11	10.10	1.89	2.3E+02	9.65	1.94	2.8E+02	-4.43		
	12	9.72	1.79	2.3E+02	9.31	1.85	2.9E+02	-4.22		
	13	10.05	1.85	2.3E+02	9.61	1.92	2.9E+02	-4.32		
	14	10.06	1.86	2.3E+02	9.62	1.91	2.8E+02	-4.34		
	15	10.03	1.87	2.3E+02	9.58	1.91	3.0E+02	-4.44		
	16	9.99	1.83	2.4E+02	9.57	1.88	2.9E+02	-4.27		
	17	9.81	1.84	2.3E+02	9.39	1.91	2.9E+02	-4.29		
	18	10.01	1.87	2.3E+02	9.61	1.99	3.0E+02	-4.07		
	19	9.99	1.87	2.3E+02	9.55	1.93	2.8E+02	-4.36		
	20	9.97	1.88	2.3E+02	9.53	1.91	2.8E+02	-4.45		
	21	9.99	1.86	2.3E+02	9.55	1.88	2.8E+02	-4.40		
	22	9.69	1.78	2.2E+02	9.28	1.82	2.8E+02	-4.18		
	23	9.88	1.84	2.3E+02	9.46	1.87	2.9E+02	-4.32		
	24	9.86	1.85	2.3E+02	9.44	1.88	2.9E+02	-4.28		
	25	9.73	1.79	2.2E+02	9.32	1.82	2.8E+02	-4.26		
	26	9.83	1.80	2.2E+02	9.43	1.86	2.7E+02	-4.12		
	27	9.80	1.77	2.2E+02	9.40	1.83	2.7E+02	-4.11		
	28	9.83	1.78	2.2E+02	9.41	1.80	2.7E+02	-4.23		
	29	10.03	1.86	2.2E+02	9.59	1.87	2.8E+02	-4.37		
	30	9.80	1.81	2.2E+02	9.38	1.81	2.7E+02	-4.32		

AEC-Q200 Summary of Test Results

AEC-Q200 Summary of Test Results					Murata P/N: GCM32ER71E106KA57				
Manufacturing Location: Philippine Manufacturing Co. of Murata					Lot No: A,B,C				
Date before test: 2023/10/1					Date after test: 2023/10/30				
#14 - Vibration									
Test conditions : 5g's for 20min, 12 cycles each of 3 orientations, test frequency 10 - 2000Hz									
No. of samples:	30			Initial readings					Final readings
No. of lots:	3	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %	
Spec limits	lower	9.00		5.0E+01	9.00		5.0E+01		
	upper	11.00	2.50		11.00	2.50			
Measurement Statistics	mean	9.872	1.826	2.31E+02	9.432	1.883	2.87E+02	-4.457	
	maximum	10.18	1.89	2.5E+02	9.71	1.94	3.2E+02	-4.04	
	minimum	9.56	1.76	2.2E+02	9.15	1.79	5.3E+01	-4.72	
	standard deviation	0.1457	0.0315	4.624E+00	0.1339	0.0326	2.943E+01	0.1327	
Test Data									
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Capacitance uF	Dissipation Factor %	IR 25C Mohm	Change in capacitance %	
A	1	9.72	1.80	2.4E+02	9.32	1.91	5.3E+01	-4.18	
	2	9.98	1.83	2.3E+02	9.55	1.91	2.9E+02	-4.33	
	3	9.88	1.84	2.4E+02	9.44	1.89	3.0E+02	-4.41	
	4	9.95	1.84	2.3E+02	9.52	1.90	2.9E+02	-4.31	
	5	9.90	1.86	2.3E+02	9.47	1.92	2.9E+02	-4.34	
	6	9.77	1.82	2.4E+02	9.35	1.90	2.8E+02	-4.30	
	7	9.71	1.82	2.3E+02	9.29	1.89	3.0E+02	-4.30	
	8	10.12	1.82	2.3E+02	9.68	1.90	2.7E+02	-4.36	
	9	9.89	1.83	2.3E+02	9.46	1.92	2.9E+02	-4.33	
	10	10.11	1.87	2.4E+02	9.66	1.94	3.1E+02	-4.43	
	11	9.83	1.83	2.3E+02	9.40	1.88	2.9E+02	-4.39	
	12	9.78	1.84	2.4E+02	9.35	1.90	3.2E+02	-4.33	
	13	10.00	1.87	2.3E+02	9.56	1.93	2.8E+02	-4.42	
	14	10.16	1.87	2.3E+02	9.71	1.93	3.0E+02	-4.35	
	15	9.89	1.82	2.3E+02	9.47	1.88	3.1E+02	-4.27	
	16	9.98	1.84	2.3E+02	9.55	1.89	2.8E+02	-4.35	
	17	9.84	1.82	2.3E+02	9.42	1.89	2.8E+02	-4.22	
	18	9.84	1.80	2.3E+02	9.44	1.92	3.0E+02	-4.04	
	19	9.85	1.83	2.3E+02	9.43	1.87	2.8E+02	-4.30	
	20	9.71	1.82	2.4E+02	9.29	1.88	2.9E+02	-4.25	
	21	9.73	1.84	2.3E+02	9.31	1.88	2.9E+02	-4.28	
	22	9.72	1.81	2.3E+02	9.30	1.87	2.8E+02	-4.28	
	23	9.65	1.81	2.3E+02	9.24	1.86	2.8E+02	-4.31	
	24	9.96	1.83	2.2E+02	9.53	1.88	2.8E+02	-4.38	
	25	9.78	1.80	2.3E+02	9.36	1.86	2.8E+02	-4.23	
	26	9.84	1.85	2.3E+02	9.41	1.90	2.9E+02	-4.36	
	27	9.89	1.86	2.3E+02	9.46	1.91	2.8E+02	-4.34	
	28	9.95	1.85	2.3E+02	9.52	1.90	2.8E+02	-4.34	
	29	9.94	1.87	2.3E+02	9.50	1.89	2.8E+02	-4.43	
	30	9.87	1.86	2.3E+02	9.44	1.90	2.9E+02	-4.34	
B	1	9.89	1.81	2.4E+02	9.45	1.89	3.0E+02	-4.48	
	2	9.88	1.80	2.3E+02	9.43	1.86	2.9E+02	-4.56	
	3	9.93	1.84	2.4E+02	9.48	1.93	3.1E+02	-4.60	
	4	9.99	1.84	2.3E+02	9.52	1.92	3.0E+02	-4.64	
	5	9.90	1.82	2.4E+02	9.45	1.89	2.8E+02	-4.58	
	6	9.83	1.86	2.4E+02	9.37	1.93	3.0E+02	-4.63	
	7	9.71	1.79	2.4E+02	9.27	1.88	2.9E+02	-4.50	
	8	9.86	1.78	2.3E+02	9.41	1.87	2.9E+02	-4.50	
	9	9.61	1.78	2.4E+02	9.19	1.88	2.9E+02	-4.41	
	10	9.71	1.80	2.4E+02	9.27	1.86	3.0E+02	-4.51	
	11	10.10	1.87	2.4E+02	9.62	1.94	3.0E+02	-4.66	
	12	9.72	1.77	2.3E+02	9.29	1.84	2.9E+02	-4.43	
	13	9.85	1.81	2.4E+02	9.40	1.88	3.0E+02	-4.51	
	14	10.06	1.88	2.4E+02	9.58	1.94	3.1E+02	-4.69	
	15	9.66	1.78	2.4E+02	9.23	1.84	3.1E+02	-4.43	
	16	10.00	1.86	2.3E+02	9.54	1.93	3.2E+02	-4.64	
	17	9.84	1.79	2.3E+02	9.40	1.93	2.9E+02	-4.45	
	18	9.63	1.80	2.4E+02	9.21	1.91	3.1E+02	-4.42	
	19	9.70	1.80	2.3E+02	9.26	1.87	2.9E+02	-4.53	
	20	9.87	1.79	2.3E+02	9.43	1.85	2.8E+02	-4.47	
	21	9.81	1.82	2.3E+02	9.36	1.86	2.8E+02	-4.58	
	22	9.72	1.79	2.3E+02	9.28	1.86	2.9E+02	-4.49	
	23	9.70	1.78	2.2E+02	9.27	1.84	2.9E+02	-4.44	
	24	9.76	1.83	2.3E+02	9.32	1.88	2.9E+02	-4.53	
	25	10.14	1.86	2.3E+02	9.67	1.92	2.9E+02	-4.61	
	26	9.69	1.78	2.3E+02	9.27	1.85	2.9E+02	-4.41	
	27	9.73	1.79	2.3E+02	9.30	1.85	2.8E+02	-4.47	
	28	9.85	1.81	2.5E+02	9.39	1.84	2.8E+02	-4.65	
	29	9.70	1.77	2.3E+02	9.26	1.79	2.8E+02	-4.49	
	30	9.79	1.80	2.3E+02	9.36	1.85	2.9E+02	-4.42	
C	1	9.93	1.82	2.3E+02	9.48	1.87	2.9E+02	-4.49	
	2	9.98	1.79	2.3E+02	9.53	1.83	2.9E+02	-4.51	
	3	9.83	1.81	2.3E+02	9.38	1.85	2.9E+02	-4.53	
	4	10.18	1.88	2.3E+02	9.70	1.90	2.9E+02	-4.67	
	5	9.88	1.83	2.3E+02	9.43	1.87	2.9E+02	-4.52	
	6	10.06	1.88	2.3E+02	9.59	1.91	3.0E+02	-4.69	
	7	10.18	1.89	2.3E+02	9.70	1.92	2.9E+02	-4.72	
	8	9.91	1.79	2.2E+02	9.46	1.84	2.9E+02	-4.52	
	9	9.68	1.78	2.3E+02	9.25	1.85	2.8E+02	-4.41	
	10	9.98	1.84	2.3E+02	9.53	1.90	3.0E+02	-4.55	
	11	10.04	1.85	2.3E+02	9.58	1.90	1.7E+02	-4.54	
	12	10.16	1.86	2.3E+02	9.69	1.91	2.9E+02	-4.62	
	13	10.03	1.84	2.3E+02	9.57	1.87	2.9E+02	-4.56	
	14	9.65	1.80	2.3E+02	9.23	1.85	3.0E+02	-4.43	
	15	10.05	1.85	2.3E+02	9.60	1.94	3.1E+02	-4.42	
	16	10.10	1.88	2.3E+02	9.64	1.93	2.9E+02	-4.60	
	17	9.66	1.76	2.2E+02	9.25	1.83	2.9E+02	-4.33	
	18	9.82	1.84	2.3E+02	9.38	1.91	3.0E+02	-4.50	
	19	9.86	1.83	2.2E+02	9.42	1.87	2.9E+02	-4.49	
	20	10.03	1.84	2.3E+02	9.57	1.87	2.8E+02	-4.57	
	21	9.97	1.87	2.3E+02	9.51	1.88	2.9E+02	-4.63	
	22	9.90	1.84	2.2E+02	9.44	1.87	2.8E+02	-4.60	
	23	9.97	1.84	2.3E+02	9.52	1.87	2.9E+02	-4.54	
	24	9.97	1.84	2.2E+02	9.52	1.87	2.8E+02	-4.53	
	25	9.56	1.76	2.3E+02	9.15	1.80	2.8E+02	-4.31	
	26	9.74	1.78	2.2E+02	9.31	1.82	2.8E+02	-4.40	
	27	9.87	1.82	2.3E+02	9.43	1.87	2.9E+02	-4.48	
	28	9.79	1.84	2.3E+02	9.35	1.86	2.9E+02	-4.53	
	29	9.97	1.83	2.3E+02	9.52	1.86	2.8E+02	-4.49	
	30	9.90	1.87	2.3E+02	9.44	1.90	2.9E+02	-4.66	

AEC-Q200 Summary of Test Results		
Manufacturing Location: Philippine Manufacturing Co. of Murata		Murata P/N: GCM32ER71E106KA57
Date before test: 2023/10/7		Lot No: A
		Date after test: 2023/10/7
#15 - Resistance to Soldering Heat		
<i>Test conditions : soldering , 260deg C,10sec, immersion</i>		
Number of Samples: 30		Number of failures: 0
Number of Lots: 1		
Lot No	Sample	Result
A	1	No failure
	2	No failure
	3	No failure
	4	No failure
	5	No failure
	6	No failure
	7	No failure
	8	No failure
	9	No failure
	10	No failure
	11	No failure
	12	No failure
	13	No failure
	14	No failure
	15	No failure
	16	No failure
	17	No failure
	18	No failure
	19	No failure
	20	No failure
	21	No failure
	22	No failure
	23	No failure
	24	No failure
	25	No failure
	26	No failure
	27	No failure
	28	No failure
	29	No failure
	30	No failure

AEC-Q200 Summary of Test Results		
Manufacturing Location: Philippine Manufacturing Co. of Murata		Murata P/N: GCM32ER71E106KA57
Date before test: 2023/10/23		Lot No: A
Date after test: 2023/10/23		
#17 - ESD Test		
<i>Test conditions : charge capacitor 150pF, discharge resistor 2000ohm</i>		
Number of Samples: 15	Greatest Breakdown Voltage with no failures	
Number of Lots: 1		
Breakdown Voltage	Sample	Result (pass/fail)
min. 2kV D.C.	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass

AEC-Q200 Summary of Test Results

Manufacturing Location: Philippine Manufacturing Co. of Murata						Murata P/N: GCM32ER71E106KA57				
Date before test: 2023/10/7						Lot No: A,B,C				
Date before test: 2023/10/7						Date after test: 2023/10/7				
#19 - Electrical Characterization										
Test conditions : 1.0+/-0.1kHz , 1.0+/-0.2Vrms(Electrical Characterization)						Test conditions : 1.0+/-0.1kHz , 1.0+/-0.2Vrms(Temperature characteristic)				
Number of Samples: 30 Number of Lots:3	Electrical Characterization				Temperature characteristic at 25C		Temperature characteristic at -55C		Temperature characteristic at 125C	
	Capacitance uF	Dissipation Factor %	IR 25C Mohm	IR 125 Mohm	Capacitance uF	Capacitance uF	Change in cap. %	Capacitance uF	Change in cap. %	
Spec limits	lower upper	9.00 11.00	2.50	5.0E+01	1.0E+00			-15.00 15.00		-15.00 15.00
Measurement Statistics	mean	9.827	2.104	2.40E+02	1.66E+01	9.827	10.008	1.843	8.737	-11.096
	maximum	10.12	2.19	2.5E+02	2.1E+01	10.12	10.32	2.62	9.16	-8.57
	minimum	9.36	2.02	2.3E+02	1.2E+01	9.36	9.54	1.32	8.06	-13.86
	standard dev.	0.1432	0.0344	3.848E+00	2.224E+00	0.1432	0.1465	0.2167	0.2090	1.6407
Lot No	Sample	Capacitance uF	Dissipation Factor %	IR 25C Mohm	IR 125 Mohm	Capacitance uF	Capacitance uF	Change in capacitance %	Capacitance uF	Change in capacitance %
A	1	9.62	2.04	2.4E+02	1.4E+01	9.62	9.77	1.60	8.37	-13.00
	2	9.70	2.09	2.4E+02	1.4E+01	9.70	9.86	1.60	8.42	-13.23
	3	9.90	2.13	2.4E+02	1.4E+01	9.90	10.08	1.84	8.55	-13.64
	4	9.87	2.18	2.5E+02	1.5E+01	9.87	10.06	1.93	8.54	-13.52
	5	9.36	2.02	2.4E+02	1.4E+01	9.36	9.54	1.91	8.06	-13.86
	6	9.96	2.12	2.4E+02	1.5E+01	9.96	10.17	1.93	8.64	-13.47
	7	10.03	2.16	2.4E+02	1.4E+01	10.03	10.22	1.87	8.68	-13.46
	8	9.79	2.11	2.4E+02	1.5E+01	9.79	9.98	1.97	8.45	-13.62
	9	9.80	2.11	2.4E+02	1.5E+01	9.80	9.97	1.81	8.49	-13.33
	10	9.73	2.10	2.4E+02	1.4E+01	9.73	9.90	1.74	8.44	-13.25
	11	9.74	2.11	2.4E+02	1.4E+01	9.74	9.92	1.82	8.47	-13.01
	12	9.88	2.12	2.4E+02	1.3E+01	9.88	10.03	1.57	8.62	-12.74
	13	9.86	2.11	2.3E+02	1.3E+01	9.86	10.05	1.95	8.56	-13.20
	14	9.89	2.13	2.4E+02	1.3E+01	9.89	10.06	1.68	8.60	-13.06
	15	9.62	2.12	2.5E+02	1.3E+01	9.62	9.78	1.70	8.35	-13.15
	16	9.81	2.09	2.4E+02	1.3E+01	9.81	10.01	2.09	8.47	-13.67
	17	9.64	2.07	2.3E+02	1.2E+01	9.64	9.79	1.62	8.39	-12.88
	18	9.77	2.09	2.4E+02	1.2E+01	9.77	9.96	1.93	8.47	-13.30
	19	9.67	2.08	2.4E+02	1.4E+01	9.67	9.83	1.64	8.42	-12.86
	20	9.77	2.10	2.4E+02	1.6E+01	9.77	9.94	1.78	8.52	-12.74
	21	10.06	2.15	2.4E+02	1.6E+01	10.06	10.24	1.82	8.73	-13.18
	22	9.94	2.16	2.4E+02	1.6E+01	9.94	10.11	1.76	8.63	-13.14
	23	9.83	2.12	2.4E+02	1.6E+01	9.83	10.01	1.85	8.52	-13.34
	24	10.07	2.19	2.3E+02	1.6E+01	10.07	10.25	1.77	8.74	-13.23
	25	9.96	2.11	2.4E+02	1.6E+01	9.96	10.13	1.69	8.67	-12.95
	26	9.75	2.07	2.4E+02	1.6E+01	9.75	9.92	1.73	8.50	-12.76
	27	9.84	2.11	2.4E+02	1.6E+01	9.84	10.02	1.80	8.56	-13.03
	28	9.80	2.05	2.4E+02	1.5E+01	9.80	9.99	1.92	8.51	-13.16
	29	9.87	2.09	2.4E+02	1.5E+01	9.87	10.05	2.00	8.59	-12.99
	30	10.12	2.17	2.4E+02	1.5E+01	10.12	10.32	2.00	8.75	-13.39
B	1	10.05	2.15	2.4E+02	1.7E+01	10.05	10.21	1.83	8.90	-10.47
	2	9.94	2.11	2.4E+02	1.8E+01	9.94	10.14	2.02	8.87	-10.71
	3	9.86	2.08	2.4E+02	1.8E+01	9.86	10.03	1.74	8.83	-10.45
	4	9.74	2.08	2.4E+02	1.9E+01	9.74	9.93	2.04	8.71	-10.53
	5	9.77	2.09	2.4E+02	1.9E+01	9.77	9.95	1.78	8.77	-10.25
	6	9.84	2.10	2.4E+02	1.8E+01	9.84	10.04	2.02	8.81	-10.51
	7	9.89	2.09	2.4E+02	1.8E+01	9.89	10.10	2.04	8.84	-10.61
	8	10.09	2.12	2.3E+02	1.9E+01	10.09	10.29	1.95	9.06	-10.19
	9	9.91	2.13	2.4E+02	1.8E+01	9.91	10.09	1.83	8.85	-10.69
	10	9.67	2.07	2.4E+02	1.8E+01	9.67	9.87	2.13	8.83	-8.61
	11	9.90	2.11	2.4E+02	1.8E+01	9.90	10.06	1.63	8.83	-10.77
	12	9.82	2.07	2.4E+02	1.7E+01	9.82	10.01	1.95	8.79	-10.45
	13	9.85	2.14	2.4E+02	1.6E+01	9.85	10.06	2.12	8.80	-10.62
	14	9.62	2.05	2.4E+02	1.6E+01	9.62	9.84	2.29	8.78	-8.74
	15	9.78	2.08	2.4E+02	1.6E+01	9.78	9.96	1.84	8.76	-10.44
	16	9.80	2.10	2.4E+02	1.5E+01	9.80	9.99	1.94	8.77	-10.50
	17	9.67	2.08	2.4E+02	1.5E+01	9.67	9.85	1.83	8.63	-10.69
	18	9.71	2.10	2.5E+02	1.4E+01	9.71	9.90	1.96	8.72	-10.20
	19	9.80	2.07	2.4E+02	1.9E+01	9.80	9.98	1.86	8.78	-10.43
	20	9.66	2.08	2.4E+02	2.0E+01	9.66	9.87	2.12	8.64	-10.62
	21	9.77	2.07	2.4E+02	2.1E+01	9.77	9.96	1.94	8.76	-10.34
	22	9.63	2.03	2.4E+02	2.1E+01	9.63	9.88	2.62	8.60	-10.66
	23	9.80	2.10	2.4E+02	2.1E+01	9.80	10.00	1.98	8.62	-12.08
	24	9.78	2.10	2.4E+02	2.1E+01	9.78	9.98	2.04	8.84	-8.57
	25	10.03	2.10	2.3E+02	2.0E+01	10.03	10.27	2.43	8.97	-10.55
	26	9.84	2.09	2.4E+02	2.0E+01	9.84	10.05	2.16	8.81	-10.47
	27	9.92	2.08	2.4E+02	1.9E+01	9.92	10.10	1.83	8.88	-10.49
	28	9.83	2.10	2.4E+02	1.9E+01	9.83	10.06	2.32	8.96	-8.86
	29	9.78	2.12	2.4E+02	1.8E+01	9.78	9.98	2.04	8.77	-10.31
	30	9.75	2.11	2.5E+02	1.8E+01	9.75	9.95	2.05	8.75	-10.25
C	1	9.93	2.12	2.4E+02	1.6E+01	9.93	10.08	1.51	9.07	-8.72
	2	9.74	2.05	2.4E+02	1.7E+01	9.74	9.91	1.78	8.82	-9.40
	3	9.79	2.14	2.4E+02	1.7E+01	9.79	9.92	1.36	8.79	-10.24
	4	10.00	2.13	2.3E+02	1.8E+01	10.00	10.16	1.68	9.07	-9.22
	5	9.83	2.06	2.3E+02	1.7E+01	9.83	9.98	1.63	8.81	-10.37
	6	9.93	2.17	2.5E+02	1.7E+01	9.93	10.08	1.57	8.89	-10.44
	7	9.70	2.09	2.4E+02	1.7E+01	9.70	9.86	1.57	8.73	-10.03
	8	9.47	2.09	2.4E+02	1.7E+01	9.47	9.61	1.50	8.60	-9.20
	9	10.05	2.17	2.4E+02	1.7E+01	10.05	10.22	1.76	9.07	-9.75
	10	10.08	2.14	2.4E+02	1.7E+01	10.08	10.25	1.66	9.06	-10.20
	11	9.73	2.09	2.4E+02	1.6E+01	9.73	9.89	1.66	8.72	-10.37
	12	10.08	2.13	2.4E+02	1.6E+01	10.08	10.25	1.62	9.16	-9.19
	13	9.78	2.10	2.4E+02	1.5E+01	9.78	9.94	1.67	8.88	-9.18
	14	9.96	2.16	2.4E+02	1.5E+01	9.96	10.13	1.71	9.07	-8.99
	15	9.62	2.10	2.4E+02	1.5E+01	9.62	9.74	1.32	8.41	-12.59
	16	9.80	2.10	2.5E+02	1.5E+01	9.80	10.01	2.11	8.83	-9.91
	17	9.88	2.10	2.4E+02	1.4E+01	9.88	10.04	1.64	8.84	-10.46
	18	9.90	2.08	2.3E+02	1.3E+01	9.90	10.09	1.90	8.99	-9.20
	19	9.94	2.13	2.4E+02	1.7E+01	9.94	10.14	1.96	8.97	-8.78
	20	10.00	2.14	2.4E+02	1.7E+01	10.00	10.18	1.78	9.09	-9.13
	21	10.03	2.14	2.4E+02	1.9E+01	10.03	10.21	1.80	9.10	-9.29
	22	9.60	2.05	2.4E+02	2.0E+01	9.60	9.81	2.16	8.64	-9.99
	23	10.04	2.18	2.5E+02	2.0E+01	10.04	10.22	1.78	9.03	-10.05
	24	9.92	2.10	2.4E+02	1.9E+01	9.92	10.10	1.76	8.88	-10.54
	25	9.70	2.09	2.4E+02	1.9E+01	9.70	9.87	1.81	8.84	-8.86
	26	9.73	2.06	2.3E+02	1.8E+01	9.73	9.90	1.79	8.85	-9.04
	27	9.81	2.10	2.4E+02	1.8E+01	9.81	9.99	1.80	8.87	-9.63
	28	9.77	2.08	2.4E+02	1.8E+01	9.77	9.95	1.88	8.82	-9.72
	29	9.77	2.09	2.4E+02	1.7E+01	9.77	9.95	1.89	8.87	-9.15
	30	9.73	2.12	2.4E+02	1.7E+01	9.73	9.88	1.55	8.68	-10.75

AEC-Q200 Summary of Test Results

		Murata P/N: GCM32ER71E106KA57	
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A	
Date before test: 2023/10/21		Date after test: 2023/10/21	
#21 - Board Flex			
<i>Test conditions : Force of 18N</i>			
Test Data			
Number of Samples: 30		Number of failures: 0	
Number of Lots: 1			
Lot No	Sample	Result (pass/fail)	
A	1	pass	
	2	pass	
	3	pass	
	4	pass	
	5	pass	
	6	pass	
	7	pass	
	8	pass	
	9	pass	
	10	pass	
	11	pass	
	12	pass	
	13	pass	
	14	pass	
	15	pass	
	16	pass	
	17	pass	
	18	pass	
	19	pass	
	20	pass	
	21	pass	
	22	pass	
	23	pass	
	24	pass	
	25	pass	
	26	pass	
	27	pass	
	28	pass	
	29	pass	
	30	pass	

AEC-Q200 Summary of Test Results			
		Murata P/N: GCM32ER71E106KA57	
Manufacturing Location: Philippine Manufacturing Co. of Murata		Lot No: A	
Date before test: 2023/10/17		Date after test: 2023/10/17	
#22 - Terminal Strength			
<i>Test conditions : Apply a force until the part brakes pass/fail criteria : More than 54.5N</i>			
Number of Samples: 30		Number of failures: 0	
Number of Lots: 1			
Lot No	Sample	Result (pass/fail)	
A	1	pass	
	2	pass	
	3	pass	
	4	pass	
	5	pass	
	6	pass	
	7	pass	
	8	pass	
	9	pass	
	10	pass	
	11	pass	
	12	pass	
	13	pass	
	14	pass	
	15	pass	
	16	pass	
	17	pass	
	18	pass	
	19	pass	
	20	pass	
	21	pass	
	22	pass	
	23	pass	
	24	pass	
	25	pass	
	26	pass	
	27	pass	
	28	pass	
	29	pass	
	30	pass	

AEC-Q200 Summary of Test Results

Murata P/N: GCM32ER71E106KA57		
Manufacturing Location: Philippine Manufacturing Co. of Murata	Lot No: A	
Date before test: 2023/11/10	Date after test: 2023/11/10	
#23 - Beam Load		
<i>Test conditions : Apply a force until the part brakes pass/fail criteria : More than 20N</i>		
Number of Samples: 30	Number of failures: 0	
Number of Lots: 1		
Lot No	Sample	Result (pass/fail)
A	1	pass
	2	pass
	3	pass
	4	pass
	5	pass
	6	pass
	7	pass
	8	pass
	9	pass
	10	pass
	11	pass
	12	pass
	13	pass
	14	pass
	15	pass
	16	pass
	17	pass
	18	pass
	19	pass
	20	pass
	21	pass
	22	pass
	23	pass
	24	pass
	25	pass
	26	pass
	27	pass
	28	pass
	29	pass
	30	pass

Cpk data

Manufacturing Location: Philippine Manufacturing Co. of		Murata P/N: GCM32ER71E106KA57		
Murata Content		Lot No: A		
	L (mm)	W (mm)	T (mm)	
No.1	3.32	2.56	2.52	2.52
2	3.32	2.56	2.56	2.52
3	3.32	2.56	2.56	2.51
4	3.33	2.56	2.56	2.52
5	3.32	2.56	2.56	2.51
6	3.32	2.57	2.56	2.50
7	3.32	2.56	2.56	2.52
8	3.32	2.57	2.56	2.51
9	3.32	2.55	2.56	2.51
10	3.32	2.55	2.56	2.51
11	3.32	2.56	2.56	2.51
12	3.32	2.56	2.56	2.50
13	3.32	2.56	2.56	2.51
14	3.32	2.56	2.56	2.51
15	3.32	2.56	2.56	2.51
16	3.32	2.57	2.56	2.51
17	3.32	2.57	2.56	2.51
18	3.32	2.57	2.56	2.51
19	3.32	2.55	2.56	2.50
20	3.32	2.56	2.56	2.50
21	3.32	2.57	2.56	2.50
22	3.32	2.55	2.56	2.51
23	3.32	2.57	2.56	2.51
24	3.33	2.57	2.56	2.51
25	3.32	2.56	2.56	2.51
26	3.32	2.57	2.56	2.51
27	3.33	2.56	2.56	2.51
28	3.32	2.56	2.56	2.51
29	3.33	2.57	2.56	2.51
30	3.32	2.56	2.56	2.50
31	3.32	2.56	2.56	2.52
32	3.32	2.56	2.56	2.51
33	3.32	2.57	2.56	2.51
34	3.32	2.56	2.56	2.51
35	3.32	2.56	2.56	2.51
36	3.33	2.57	2.56	2.51
37	3.32	2.56	2.56	2.50
38	3.32	2.56	2.56	2.50
39	3.32	2.57	2.56	2.51
40	3.33	2.56	2.56	2.50
41	3.32	2.56	2.56	2.50
42	3.32	2.57	2.56	2.52
43	3.32	2.56	2.56	2.50
44	3.32	2.56	2.56	2.50
45	3.32	2.56	2.56	2.51
46	3.32	2.56	2.56	2.51
47	3.32	2.57	2.56	2.50
48	3.32	2.57	2.56	2.50
49	3.32	2.56	2.56	2.51
50	3.33	2.56	2.56	2.52
51	3.32	2.56	2.56	2.52
52	3.33	2.56	2.56	2.50
53	3.32	2.56	2.56	2.50
54	3.32	2.56	2.56	2.51
55	3.32	2.55	2.56	2.50
56	3.33	2.56	2.56	2.50
57	3.32	2.56	2.56	2.51
58	3.32	2.56	2.56	2.52
59	3.32	2.56	2.56	2.51
60	3.32	2.56	2.56	2.51
61	3.32	2.56	2.56	2.52
62	3.32	2.57	2.56	2.51
63	3.32	2.56	2.56	2.52
64	3.32	2.57	2.56	2.51
65	3.33	2.57	2.56	2.51
66	3.32	2.57	2.56	2.50
67	3.32	2.56	2.56	2.51
68	3.32	2.57	2.56	2.51
69	3.32	2.57	2.56	2.52
70	3.32	2.56	2.56	2.51
71	3.32	2.55	2.56	2.52
72	3.32	2.57	2.56	2.52
73	3.32	2.55	2.56	2.50
74	3.32	2.56	2.56	2.51
75	3.32	2.56	2.56	2.51
76	3.32	2.55	2.56	2.51
77	3.32	2.56	2.56	2.51
78	3.33	2.57	2.56	2.51
79	3.32	2.56	2.56	2.50
80	3.32	2.56	2.56	2.51
81	3.33	2.56	2.56	2.51
82	3.33	2.56	2.56	2.52
83	3.32	2.57	2.56	2.52
84	3.32	2.56	2.56	2.50
85	3.32	2.56	2.56	2.51
86	3.32	2.57	2.56	2.50
87	3.32	2.55	2.56	2.50
88	3.33	2.57	2.56	2.50
89	3.32	2.56	2.56	2.50
90	3.32	2.57	2.56	2.50
91	3.32	2.56	2.56	2.51
92	3.32	2.56	2.56	2.50
93	3.32	2.56	2.56	2.51
94	3.32	2.55	2.56	2.50
95	3.33	2.57	2.56	2.51
96	3.32	2.56	2.56	2.50
97	3.32	2.56	2.56	2.51
98	3.33	2.56	2.56	2.51
99	3.33	2.57	2.56	2.51
100	3.32	2.56	2.56	2.50
Average	3.320	2.562		2.508
Std dev	0.0041	0.0045		0.0056
MAX	3.33	2.57		2.52
MIN	3.32	2.55		2.50
Cpk	-34.12	-19.40		-12.46
SL	3.50	2.70		2.70
SU	2.90	2.30		2.30