

Document Receipt Acknowledgement
Date:
Section:
Name:



INNOVATOR IN ELECTRONICS

Document No.: E2Z1-N24C-D0584

Date; Sep.,29,2017

Attention:

PK COMPONENTS ELEKT.BAUUELEM. VERTR. GMBH

4M Change Notice

NTC Lead type for Temperature Sensor : NXR Series

Dear. Valued Customer

Thank you very much for your great and continued support for business with Murata.
 This is the official notification that some of our products' 4M Change will be proceeded as detailed below.
 Please review this, and indicate your feedback for this Notice in writing by Feedback Due.
 Your understanding and support are highly appreciated.

1. Product Type, Changes, and Customer/Murata/Alternative Part Numbers:

Product Type: NTC Lead type for Temperature Sensor : NXR Series

Changes: Man Machine Material Method

Before Change (Production Plant)	After Change (Production Plant)
Iwami Murata Manufacturing Co., Ltd. (Japan)	Wuxi Murata Electronics Co., Ltd. (China)

Please refer to the attached documents for detailed Part Numbers' information.

2. Reasons/Background:

Except NXR Series, all Lead Type Thermistor are made in Wuxi Murata.
 Through production plant change, Wuxi Murata would focus all of Lead Type Thermistor.
 And Murata is expecting expansions of business and improvements of service in futrue,
 by sharing management resources such as the staff, facilities and concentration of R&D.

3. Products Before and After the Change:

Only the production plant will be changed.
 There are no changes of the products' design, quality, guaranteed specifications, and others,
 as Murata continuously uses the same production process and quality control system.
 Please refer to the attached file(s) for further details.
 In addition, it is possible to offer WME` s samples and reliability data in December, 2017.
 Please send us request if you need.

4. Change Schedule:

Production Start in New Factory: April, 01. 2018 (Taping product will be from Sep., 01, 2018)
 Last Production Date in Current Factory: Sep., 30, 2018 (Taping product will be from Mar., 31, 2019)
 Products' delivery from the New Factory will be started sequentially.

5. Feedback Due:

Mar., 31, 2018

Please indicate your feedback to Murata in writing by the Feedback Due,
 whether you approve this Notice or need further discussion and/or adjustments with Murata.

6. Contact Window:

Should you have any questions or concerns,
 please contact Murata Sales, Representative, or Distributor in your area.

Truly Yours. Thank you.

Murata Manufacturing, Co., Ltd.
 Plannig and Promotion Department. Sensor Products Division.
 General Manager, Yoshitaka Nagao

Confirmation Letter

PK COMPONENTS ELEKT.BAUELEM. VERTR. GMBH

Murata Manufacturing, Co., Ltd.

4M Change Confirmation

4M Change detailed below is

Subject to Further Discussion.

Accepted.

Product Type: NTC Lead type for Temperature Sensor : NXR Series

Changes: Man Machine Material Method

Before Change	After Change
Iwami Murata Manufacturing Co., Ltd. (Japan)	Wuxi Murata Electronics Co., Ltd. (China)

Requests, Questions, Comments

Signature

Date: (MM, DD, YYYY)

Title:

Name:

納入実績
Sales History

弊社に登録されている貴社品番は下記になります。

Please find the list below for the target part numbers which are registered as yours in Murata. (Customer Part Number)

下記に記載の無い貴社品番につきましても、弊社の対象品種については申し入れに含むことと致します。

Regardless of the list below, all part numbers shall be the target as far as they are categorized into the Product Type indicated in the Document.

口座番号 Account Number	お客様名 Customer Name	貴社品番 CustomerPart Number	弊社品番 MurataPart Number	納入数 (単位: 個) Sales Quantity (Unit: pieces)					
				'12FY	'13FY	'14FY	'15FY	'16FY	'17FY until Aug.
D0584	PK COMPONENTS ELEKT.BAUELEM. VERTR	NXRT15WB473FA3A016	NXRT15WB473FA3A016	0	30,000	0	20,000	90,000	10,000
D1464	PK COMPONENTS ELEKT. BAUELEM. GMBH		NXRT15XH103FA5B045	0	0	5	0	0	0
D1464	PK COMPONENTS ELEKT. BAUELEM. GMBH		NXRT15XV103FA1B040	0	0	0	3	0	0
D1464	PK COMPONENTS ELEKT. BAUELEM. GMBH		NXRT15XV103FA5B045	0	0	0	3	0	0

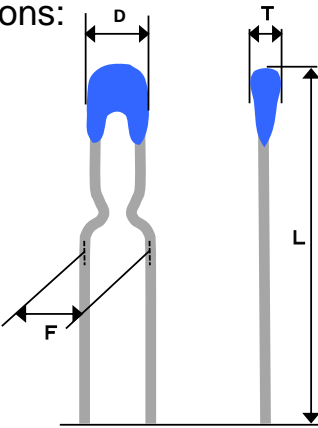
【NTC Lead Thermistor NXR Series/Comparison of change】



E2Z1-N24C-CPE

Item		Before change	After change
Factory		Iwami Murata Manufacturing Co., Ltd. (Japan)	Wuxi Murata Electronics Co., Ltd.(China)
Equipment		—	Use the same equipment as Iwami Murata
Man		Japanese workers	Chinese workers who received the on-the-job training in Iwami Murata(Japan).
Operation standard		—	No change (Available in Japanese and Chinese)
Design	Resistance value	No specification change	
	B-constant	No specification change	
	Operating current for sensor	No specification change	
	Operating temperature	No specification change	
	Rated electric power	No specification change	
Raw materials		No change	
Production process		No change	
Quality assurance		No change	
Package		No change	
Outgoing inspection number		IE*****	WM*****

INSPECTION DATA/検査データ

Part Number/品番	NXRT15XH103F1A1B040		
Spec. 仕様	Ratings/定格: Resistance Value/抵抗値(25degC) : 10kohm ± 1% B-Constant/B定数(25degC/50degC) : 3380K ± 1%	Dimensions/寸法 	D: 4.0mm Max. T: 2.0mm Max. L: 40.0mm ± 1.0mm F: 2.5 mm ± 1.0mm

【Iwami Murata Plant in Japan/イワミ村田製作所 日本】

No.	Lot.A						Lot.B					
	Ratings/定格		Dimensions/寸法				Ratings/定格		Dimensions/寸法			
	Resistance /抵抗値 (kohm)	B-Constant /B定数 (K)	D (mm)	T (mm)	L (mm)	F (mm)	Resistance /抵抗値 (kohm)	B-Constant /B定数 (K)	D (mm)	T (mm)	L (mm)	F (mm)
1	10.01	3397	2.4	1.7	40.0	2.5	9.98	3401	2.3	1.6	39.9	2.5
2	10.05	3399	2.4	1.6	40.0	2.5	10.02	3400	2.4	1.6	40.0	2.5
3	10.07	3403	2.4	1.7	40.0	2.5	10.05	3401	2.4	1.8	40.0	2.5
4	10.04	3400	2.4	1.6	40.0	2.5	10.05	3401	2.4	1.7	40.0	2.5
5	10.07	3402	2.4	1.6	39.9	2.5	10.02	3401	2.3	1.6	39.9	2.5
6	10.04	3399	2.4	1.7	40.0	2.5	9.93	3396	2.4	1.7	39.9	2.5
7	9.96	3399	2.4	1.8	39.9	2.5	10.03	3400	2.3	1.7	40.0	2.6
8	10.02	3400	2.4	1.7	39.9	2.5	10.04	3401	2.3	1.7	40.0	2.5
9	9.99	3401	2.4	1.6	40.0	2.5	9.97	3401	2.4	1.6	40.0	2.5
10	9.95	3401	2.4	1.7	40.0	2.5	10.02	3400	2.4	1.6	39.9	2.5
Ave.	10.02	3400	2.4	1.7	40.0	2.5	10.01	3400	2.3	1.7	40.0	2.5
Max.	10.07	3403	2.4	1.8	40.0	2.5	10.05	3401	2.4	1.8	40.0	2.6
Min.	9.95	3397	2.4	1.6	39.9	2.5	9.93	3396	2.3	1.6	39.9	2.5
σ	0.04	2	0.0	0.1	0.0	0.0	0.04	1	0.0	0.0	0.0	0.0

【Wuxi Murata Plant in China/無錫村田製作所 中国】

No.	Lot.A						Lot.B					
	Ratings/定格		Dimensions/寸法				Ratings/定格		Dimensions/寸法			
	Resistance /抵抗値 (kohm)	B-Constant /B定数 (K)	D (mm)	T (mm)	L (mm)	F (mm)	Resistance /抵抗値 (kohm)	B-Constant /B定数 (K)	D (mm)	T (mm)	L (mm)	F (mm)
1	10.03	3397	2.3	1.7	39.9	2.5	9.96	3399	2.3	1.7	39.9	2.5
2	9.98	3399	2.4	1.7	40.0	2.5	10.04	3401	2.3	1.7	39.9	2.5
3	9.97	3401	2.4	1.7	40.0	2.5	10.06	3402	2.3	1.6	40.0	2.5
4	9.95	3396	2.4	1.7	40.0	2.5	10.05	3401	2.3	1.6	39.9	2.5
5	10.04	3397	2.4	1.6	40.0	2.5	9.96	3395	2.4	1.7	39.9	2.5
6	10.02	3400	2.4	1.7	39.9	2.5	10.02	3394	2.3	1.6	39.9	2.5
7	10.00	3402	2.4	1.7	40.0	2.5	9.97	3398	2.3	1.7	39.9	2.5
8	9.97	3401	2.4	1.7	40.0	2.5	9.97	3402	2.3	1.6	39.9	2.6
9	10.05	3399	2.4	1.7	40.0	2.5	10.06	3400	2.4	1.6	39.9	2.5
10	9.97	3397	2.4	1.7	40.0	2.5	10.03	3394	2.3	1.6	39.9	2.5
Ave.	10.00	3399	2.4	1.7	40.0	2.5	10.01	3399	2.3	1.6	39.9	2.5
Max.	10.05	3402	2.4	1.7	40.0	2.5	10.06	3402	2.4	1.7	40.0	2.6
Min.	9.95	3396	2.3	1.6	39.9	2.5	9.96	3394	2.3	1.6	39.9	2.5
σ	0.03	2	0.0	0.0	0.0	0.0	0.04	3	0.0	0.0	0.0	0.0

Note/記 :

Date/作成日:20-Sep.-17	Temperature/温度 : 25 degC
Checked by H. Yamauchi/確認:山内宏保	Inspected by N. Ueda/検査担当:上田典子