

DM-M13-018

1/2

Date: 13 May 2013

Messr.

PK COMPONENTS ELEKT.BAUELEM. VERTR. GMBH

Sensor Products Department 2 Sensor Product Division Murata Manufacturing Co.,Ltd.

Approved by:

K.hashimoto

Yoshihiro Yoshida

Issued by:

Y.Yoshida

Application for Material Change for Magnetic Pattern Recognition sensor

We are planning material change for our sensor as below.

Please confirm the contents and return a second form filled with your answer.

Product	Magnetic Pattern Recognition Sensor	Murata P/N	BS05T1HGNA		
Name		Customer P/N	BS05T1HGNA		
Reason	It is confirmed that similar products which are the same in structure as				
	BS05T1HGNA tend to have carrier noise. Namely, BS05T1HGNA may have carrier				
	noise as well.				
	The causes were 1) the propagation of impact vibration to sensor elements, and 2) the				
	vibration of the magnetic metal cover.				
	To avoid carrier noise, the following modifications will be made.				
Contents			Risks		
	1) -1 Change in shape of holder The sides of each MR-element are i	-	le effect on the characteristics.		
	in contact with adjacent MR-eleme or the case.		1.1 to 1.2 times abrasion loss comparing to SUS304-3/4H.		
	1) 0 01	Abrasion	resistance will decline.		
	1)-2 Change in adhesive resin.	See the atta	ched pdf document.		
	2) Change in hardness grade of cover material:SUS304. From 3/4H to 1/2F	Н.			

These material changes "1), 2)" will be made after running out of our current material stock. Moreover, the both changes may not be made at the same time.

We would greatly appreciate your understanding in this matter.



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Date

To Sensor Products Department 2 Sensor Product Division Murata Manufacturing Co.,Ltd.

Company Name:

Accepted by

Subject	Material Change	Material Change for Magnetic Pattern Recognition sensor			
	against the carri	ier noise problem.			
Answer	□ Approve	☐ Approve with conditions	\square Disapprove		
Remarks					

Please return this completed form by 31st May, 2013.