SHOULDER

规格书编号 SPEC NO:

产品规格书 SPECIFICATION

CUSTOMER 客户:_			
PRODUCT 产品:_	CER	RAMIC DISCRIMINA	TOR
MODEL NO型号:_		CDB480C28	
PREPARED 编 制:_	LEO	CHECKED 审 核:	YORK
APPROVED 批 准:	LIUMING	D A T E 日 期:	2013-4-15

客户确认 CUSTOMER RECEIVED:				
批准 APPROVED	日期 DATE			
	批准 APPROVED			

无锡市好达电子有限公司 Shoulder Electronics Limited

更改历史记录 History Record

更改日期 Date	规格书编号 Spec No	产品型号 Part No	客户产品型号 Customer No	更改内容描述 Modify Content	备注 Remark

1. APPLICATION

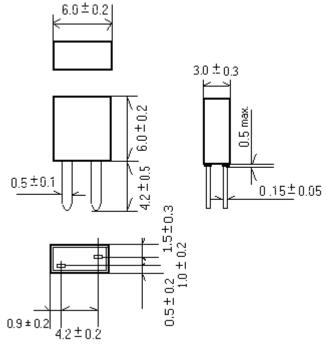
This specification is applied to ceramic discriminator : CDB480C28 used for quadrature detection with IC : TA31142F (TOSHIBA)

2. Specification No.: $QJ/A5 \bullet 10 \bullet 0605$

MODEL NAME

Part Name	Customer's Part No.	Customer's Draving No.
CDB480C28		

3. DIMENSIONS : (mm)



Material List

	Polybutenetelephthalate	
Case	(mixture of glass fiber)	
Terminal	Phosphor bronze Ag Clad	
Base Sealing	Epoxy resin	

4.	MAXIMUM RATINGS
4.	MAXIMUM RATINGS

- 4.1 Withstanding Voltage (Between each terminal)
- 4.2 Insulation Resistance (Between each terminal)
- 4.3 Input signal level
- 4.4 Operating Temperature Range
- 4.5 Storage Temperature Range

D.C. 5OV. 1 minute

 $100~\text{M}\,\Omega$ $\,$ min. at D.C. 100V

5dB (50 Ω Termination) - 20°C to + 80 °C 25 \pm 5°C

5.	ELECTRICAL CHARACTERISTICS ($0 \ C \ to + 40 \ C$)				
		Item Requirements			
	5-1	Receiver Audio 3dB Bandwitdth (from 480KHz)	\pm 4.0 KHz min.		
	5-2	Receiver Audio Output Voltage (at 480KHz) $40 \pm 20 \text{ mV}$			
	5-3	Distortion (at 480 KHz)	3.0% max.		
	5-4	Withstanding Voltage	50V D.C. for 1 minute		

5. ELECTRICAL CHARACTERISTICS ($0^{\circ}C$ to + 40 $^{\circ}C$)

5-5 Test Method

Input signal Condition Input level : 80dB Frequency Deviation : ±4.0KHz			
Modulation Frequency : 1 KHz			
 Recoverd Audio Input the above signal and sweep the carrier frequency 3dB Bandwidth around 480 KHz and find out the maximum audio output frequency. Then sweep the carrier frequency again and find two frequencies which are observed -3dB attenuation points from the maximum point . Higher frequency point is called (f1) and lower called (f2), (f1-480KHz)is defined as upper 3dB bandwidth and (480Khz-f2) defined as lower 3 dB bandwidth. 			
 Receiver Audio Output Voltage Distortion Receiver audio output voltage shall be measured when carrier frequency is adjusted to 480KHz. Distortion Carrier frequency is adjusted to 480KHz. And then ,distortion shall be measured with 1 kHz modulation frequency. 			

6. PRYSICAL AND ENVIRONMENTAL CHARACTERISTICS

	Test Item	Condition of Test	Requi	rements	
6-1	Lead Strength				
	Lead Pulling	After force 1.0Kg is applied to each lead in axial	No	mechani	cal
	Lead Bending	direction. filter shall be measured.	damage	and	the
		When force of 0.5Kg is applied to each lead in	measured	val	ues
		axial direction the lead shall be folded up to 90°	shall meet	titem 5.	
		from the axial direction and folded back to the			
		axial direction.			
6-2	Vibration	Filter shall be measured after being applied			
		vibration of amplitude of 1.5mm with 600 to			
		3,300 r.p.m. band of vibration frequency to each			
		of 3 perpendicular directions for 2 hour.			
6-3	Random Drop	Filter shall be measured after 3 times random			
		dropping from the height of 30cm on concrete			

CDB480C28

		floor	
6-4	Temperature	Filter shall be measured within -20 °C to	
	Characteristics	$+80^{\circ}$ C temperature range.	
6-5	Humidity	Filter shall be measured after being placed in a	
		chamber with 90 to 95% R. H. at $40\pm2^{\circ}$ C for	
		100 hours and then being placed in natural	The measured values
		condition for 2 hour.	shall meet Table 1.
6-6	Resistance to	Lead terminals are immersed up to 1.5mm from	
	Soldering Heat	filter's body in soldering bath of $260 \pm 10^{\circ}$ C for	
		5 ± 0.5 seconds and then filter shall be measured	
		after being placed in natural condition for 2 hour.	
6-7	Life Test (High	Filter shall be measured after being placed in	
	Temperature)	chamber with 80° C for 100 hours and then being	
		placed in natural condition for 2 hour.	
6-8	Life Test	Filter shall be measured after being placed in a	
	(Low	chamber with $-20^\circ C$ for 100 hours and then	
	Temperature)	being placed in natural condition for 2 hours.	
6-9	Thermal Shock	After temperature cycling of -20° (30 minutes)	
		to +80°C (30 minutes) was performed 5 times.	
		Filter shall be returned to room temperature. And	
		filter shall be measured after being placed in	
		natural condition for 2 hours.	

Item	Requrements
Receiver Audio 3dB Bandwidth (from 480KHz)	\pm 3.0 KHz min.
Receiver Audio Output Voltage (at 480KHz)	40±20 mV
Distortion (at 480KHz)	3.0 % max.
Withstanding Voltage	50V D. C. for 1 minute.
	Table 1

Table 1.