

1. APPLICATION

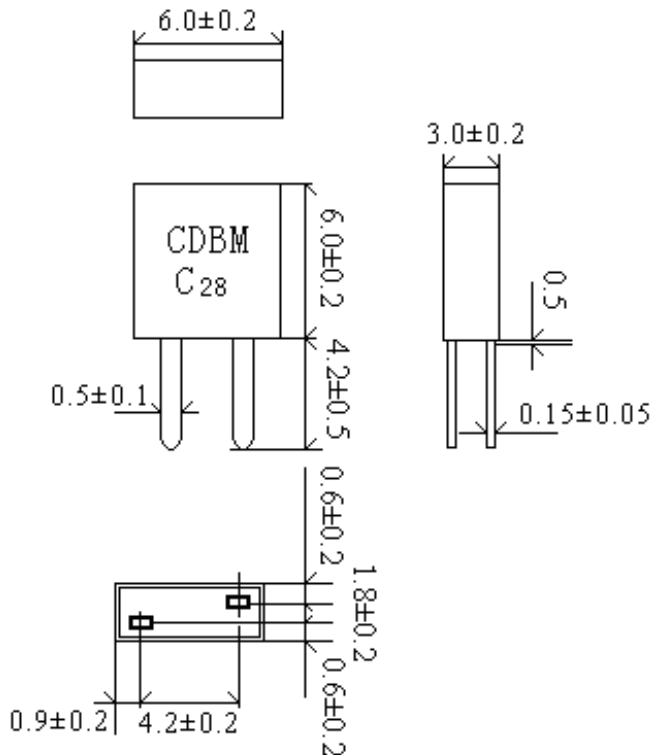
This specification is applied to ceramic discriminator: CDBM455C28

Used for quadrature detection with IC: TA31142F(TOSHIBA)

2. MODEL NAME

Part Name	Customer's Part NO.,	Customer's Draving NO.,
CDBM455C28		

3. DIMENSIONS: (mm)



Material List

Case	Polybutcnetelephthalate (mixture of glass fiber)
Terminal	Phosphor bronze Ag Clad

4. PACKAGING

The products should be packaged for [roducting from the accident which could be caused during transportation or preservation. And part name. quantity and inspection lot No. shall be given to the each minimun packaging unit

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7. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

	Test Item	Condition of Test	Requirements
7-1	Lead Strength Lead Pulling Lead Bending	After force 1.0Kg is applied to each lead in axial Direction. Filter shall be measured. When force of 0.5Kg is applied to each lead in axial direction the lead shall be folded up to 90° from the axial direction and folded back to the axial direction.	No mechanical damage and the measured values shall meet item 6.
7-2	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 1 hour.	The measured values shall meet Table 1.
7-3	Random Drop	Filter shall be measured after 3 times random dropping from the height of 30cm on concrete floor	
7-4	Temperaturc characteristics	Filter shall be measured within -20 °C to +80 °C temperature range.	
7-5	Humidity	Filter shall be measured after being placed in a chamber with 90 to 95% R.H. at 40±2°C for 100 hours and then being placed in natural condition for 1 hour.	
7-6	Resiatance to Soldering Hoat	Lead terminals are immersed up to 1.5mm from filter's body in soldering bath of 260±5°C for 5±0.5 seconds and then filter shall be measured after being placed in natural condition for 1 hour.	
7-7	Life Test (High Temperature)	Filter shall be measured after being placed in chamber with 80°C for 100 hours and then being placed in natural condition for 1 hour.	
7-8	Life Test (Low Temperature)	Filter shall be measured after being placed in a chamber with -30°C for 100 hours and then being placed in natural condition for 1 hours.	
7-9	Thermal Shock	After temperature cycling of -55°C (30 minutes) to +85°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 1 hours.	

Table 1.

Item	Requirements
Recoverd Audio 3dB Bandwidth (from 455KHz)	± 4.0 KHz min
Recoverd Audio Output Voltage (at 455KHz)	40 ± 20 mV
Distortion (at 455KHz)	3.0 % max
Withstanding Voltage	50V D.C.for 1 minute.

Test circuit for ceramic discriminator

