



SPEC NO.: CD-032SDIP

# Specification

TO:STE508

Model Name: Ceramic filter

**PART NO: CDBM450C3**

CUSTOMER PART NO.: Murata CDBM450C3

Approval sheet:

Approved	Yes
Customer's comments are welcomed here.	No.

Pls return this copy as a certificate of your approval by Fax.

Approved By                      Date: \_\_\_\_\_

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### 1. Application

This specification is applicable to ceramic discriminator CDBM450C3 use for communication equipment with IC:CXA1184M.

### 2. Electrical Characteristics

This discriminator must need following performance.

2-1) Anti-resonate frequency (Fa) : 450±1.5 kHz.

2-2) Resonant Impedance (Ri): 70 ohms Max.

2-3)  $\Delta F(Fa-Fr)$  : 48±5.0 kHz.

Fr: resonant frequency

2-4) Capacitance (at 1 kHz) : 600 pF±20%.

### 3. Environmental Test

#### 3-1) Temperature Characteristics

At the temperature range of 25±5°C, the discriminators shall meet the electrical properties in item 2-1~2-4, and at -20~+80°C the Anti-resonant frequency shall not vary more than ±2.0 kHz.

#### 3-2) Vibration

The discriminators shall suffer no mechanical damage and meet the 2-1~2-4 electrical Characteristics after being vibrated with a sine wave motion having an amplitude of 1.0 mm from 10 to 55KHz per 1 minute, applied for 30 minutes in three different directions (x,y,z).

#### 3-3) Humidity

The discriminators shall be placed in a humidity chamber at 90~95% relative humidity and 40~45 °C for a period of minimum 8 hours. The discriminators shall be left for the period of more than 24 hours at the room temperature after its removal from the humidity chamber. The discriminators shall meet the 2-1~2-4 electrical characteristics and the appearance of discriminators is to be normal.

#### 3-4) Dropped Shock

The discriminators shall suffer no mechanical damage and meet the 2-1~2-4 electrical characteristics outlined on this specification after being dropped 3 times to concrete floor from the 30 cm height.

#### 3-5) Solder ability

The terminal surface shall be covered over 3/4 by the solder after dipping the leads into 230±5°C solder pot containing (Sn 63% Pb 37%) molten alloy for 3±1 seconds.

#### 3-6) Soldering Heat-Resistance

The discriminators shall be assembled to the 1 mm “through-hole” P.C. bored and placed in solder solution (Sn63% Pb37%) at  $250\pm 10^{\circ}\text{C}$  for duration of  $3\pm 1$  seconds. After removal from the solder solution chamber, the discriminators may be cleaned with chlorothene and left for more than 24 hours at the room temperature. The discriminators shall meet the 2-1~2-4 electrical characteristics are to be normal.

#### 3-7) Lead Strength

The discriminators shall suffer no mechanical damage and meet the 2-1~2-4 electrical characteristics outlined on this specification after static load of 1.0 kg for 1 minute is applied in the direction of the insertion side.

#### 3-8) Temperature

The discriminators shall be held at each cycle consist of three temperature levels( $-20,+25,+80^{\circ}\text{C}$ ) for a period of each 30 minute and repeated 3 cycles. After the test the discriminators may be left for more than 24 hours at the room temperature. The discriminators shall meet the 2-1~2-4 electrical characteristics outlined on this specification and the appearance of discriminators is to be normal.

### 4. Appearance

4-1) Appearance and dimension may conform to Fig.1

4-2) Identification

The following shall be permanently and legibly marked.

### 5. Dimensions (unit mm)

Fig 1.

