

# Monolithic Crystal Filters (MCF)

Highs tability  
Ceramic Package  
Small&Thin

Pb-free : RoHs compliance



## MC-7050C2-45M75, -45M15, -45M65

### Typical applications

- Mobile Telecommnuication, Base Station, GPS, etc.

### Features

- 30 to 150 MHz.
- 2 Pole.
- Package : Metal lid + Ceramic package.
- 7.0×5.0×1.5 mm

### Specifications

| Model                | MC-7050C2-45M75     | MC-7050C2-45M15      | MC-7050C2-45M65      |
|----------------------|---------------------|----------------------|----------------------|
| Nominal Frequency    | 45.000 MHz          | 45.000 MHz           | 45.100 MHz           |
| Pole                 | 2 Pole              | 2 Pole               | 2 Pole               |
| Pass Band            | 3 dB : ±7.5KHz min. | 3 dB : ±15 KHz min.  | 3 dB : ±6.5KHz min.  |
| Attenuation Band     | 24dB : ±50 KHz max. | 17dB : ±48 KHz max.  | 18dB : ±25 KHz max.  |
| Ripple               | 0.5dB max.          | 1.0dB max.           | 1.0dB max.           |
| Loss                 | 1.5dB max.          | 2.0dB max.           | 2.0dB max.           |
| Attenuation Band     | 60 dB min.:Fo-900KH | 70 dB min.:Fo-900KHz | 50 dB min.:Fo-900KHz |
| Spurious             | 10 dB max.          | 3 dB max.            | 20 dB max.           |
| Termina Impedance    | 560Ω // 6.0pF       | 1200Ω // 1.8pF       | 550Ω // 3.0pF        |
| Operating Temperture | -20 to +70° C       |                      |                      |

### Environmental Characteristics

| Description     | Specification  |
|-----------------|--|
| Fall Shock      | Test : 3 time free drop onto concrete board from 150cm high<br>Result: ±5.0 ppm max.   |
| Vibration Shock | Test : Freq. 5-500Hz, Amplitude 1.5mm, Test time 4cycles/XYZ axis<br>Result: ±5.0 ppm max.   |
| Solderability   | Test : Immersed into solder bath at 235±° C for 3 sec.<br>Result: More than 95%  |
| Humidity        | Test : 90 to 95%RH at 60±3° C±500 hours<br>Result: ±5.0 ppm max.   |
| Reflow Heat     | Test : 2 times of IR reflow soldering in accordance with reflow temerature profil as per the document No.:TR-( Result: ±5.0 ppm max. |

### Outline Drawing & Suggested Pa

