

# MF1103-1

FOR IF FILTER OF PHS HAND HELD

MF1103-1

## DESCRIPTION

This SAW filter for the IF filter circuit of PHS hand held

## APPLICATION

- PHS Handheld

## FEATURES

1. SMD package insures small size, lightweight.
2. Adjustment free.
3. Low insertion loss and high stop band attenuation.
4. Wide and sharp passband characteristics.
5. High stability and reliability.
6. Designed for reflow solderings.

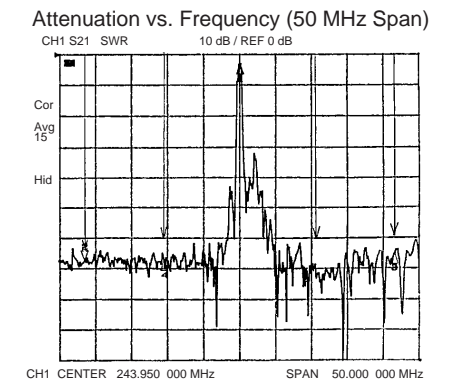
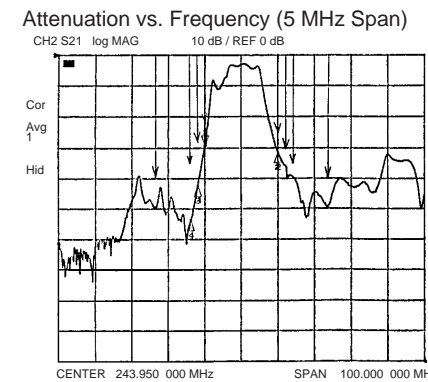
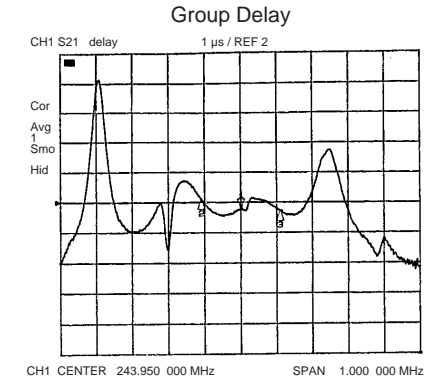
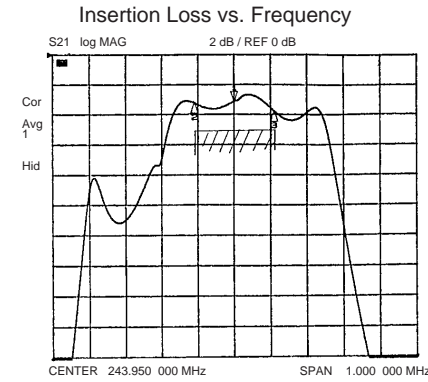
## ELECTRICAL PERFORMANCE

### PRELIMINARY

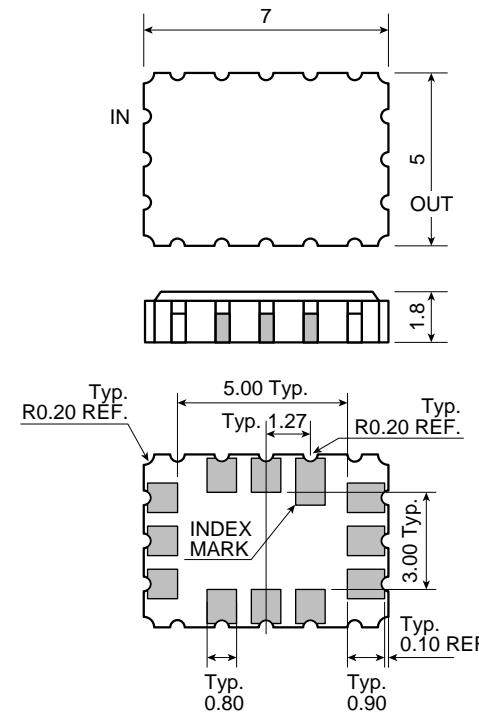
| Item                                     | Frequency range    | Min. | Typ. | Max. | Units |
|--|--------------------|------|------|------|-------|
| Center Frequency (fo)                    | 243.95 MHz         | ---  | ---  | ---  | ---   |
| Bandwidth (fo-3 dB)                      | ---                | ±110 | ±150 | ---  | kHz   |
| Insertion Loss at fo                     | 243.95 MHz         | ---  | 4.0  | 5.0  | dB    |
| Pass Band Ripple                         | fo ± 110 kHz       | ---  | 1.0  | 1.5  | dBp-p |
| Group Delay Ripple                       | fo ± 110 kHz       | ---  | 0.4  | 1.0  | SEC   |
| Stop band Attenuation (relative to 0 dB) | fo -21.6 MHz       | 62.0 | 67.0 | ---  | dB    |
|  | fo -10.8 MHz       | 60.0 | 65.0 | ---  |       |
|  | fo - 1.2 MHz       | 40.0 | 50.0 | ---  |       |
|  | fo - 0.7 MHz       | 35.0 | 40.0 | ---  |       |
|  | fo - 0.6 MHz       | 28.0 | 35.0 | ---  |       |
|  | fo - 0.5 MHz       | 22.0 | 28.0 | ---  |       |
|  | fo + 0.5 MHz       | 25.0 | 30.0 | ---  |       |
|  | fo + 0.6 MHz       | 30.0 | 36.0 | ---  |       |
|  | fo + 0.7 MHz       | 35.0 | 42.0 | ---  |       |
|  | fo +10.8 MHz       | 60.0 | 70.0 | ---  |       |
| fo +21.6 MHz                             | 60.0               | 65.0 | ---  |      |       |
| Terminal Impedance                       | 290 Ω // 6.0 pF    |      |      |      |       |
| Package Size                             | 7.0 × 5.0 × 1.8 mm |      |      |      |       |

Operating temperature range: -10 ~ +60°C

## MF1103-1 TYPICAL CHARACTERISTICS



## PACKAGE OUTLINE DIMENSIONS



### Measurement Circuit

