

# 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.

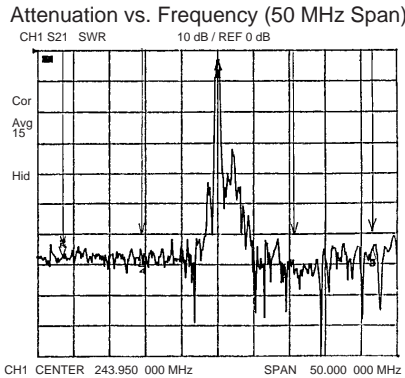
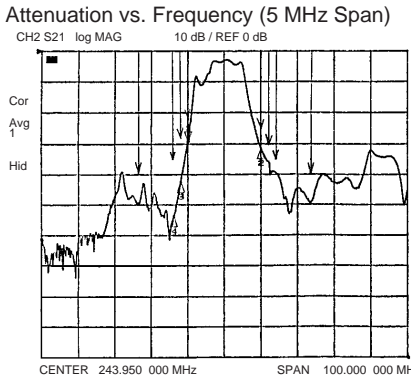
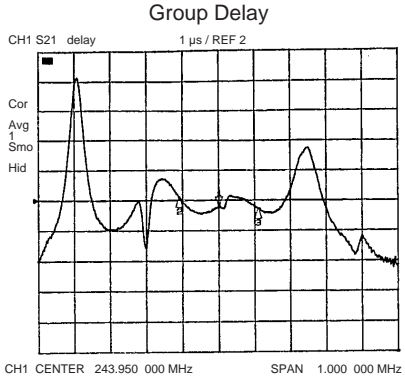
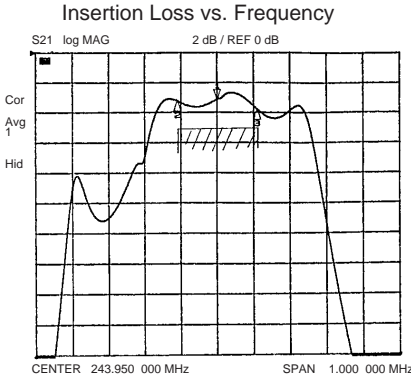
## ELECTRICAL PERFORMANCE

### PRELIMINARY

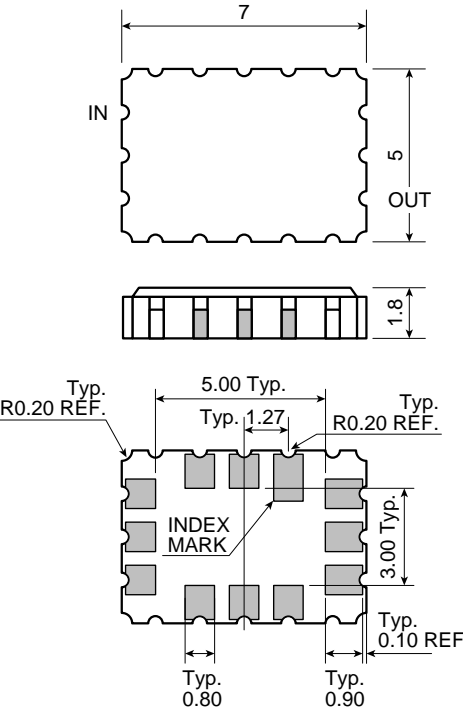
Item	Frequency range	Min.	Typ.	Max.	Units
Center Frequency (f <sub>0</sub> )	243.95 MHz	---	---	---	---
Bandwidth (f <sub>0</sub> -3 dB)	---	±110	±150	---	kHz
Insertion Loss at f <sub>0</sub>	243.95 MHz	---	4.0	5.0	dB
Pass Band Ripple	f <sub>0</sub> ± 110 kHz	---	1.0	1.5	dBp-p
Group Delay Ripple	f <sub>0</sub> ± 110 kHz	---	0.4	1.0	SEC
Stop band Attenuation (relative to 0 dB)	f <sub>0</sub> -21.6 MHz	62.0	67.0	---	dB
	f <sub>0</sub> -10.8 MHz	60.0	65.0	---	
	f <sub>0</sub> - 1.2 MHz	40.0	50.0	---	
	f <sub>0</sub> - 0.7 MHz	35.0	40.0	---	
	f <sub>0</sub> - 0.6 MHz	28.0	35.0	---	
	f <sub>0</sub> - 0.5 MHz	22.0	28.0	---	
	f <sub>0</sub> + 0.5 MHz	25.0	30.0	---	
	f <sub>0</sub> + 0.6 MHz	30.0	36.0	---	
	f <sub>0</sub> + 0.7 MHz	35.0	42.0	---	
	f <sub>0</sub> + 1.2 MHz	40.0	50.0	---	
	f <sub>0</sub> +10.8 MHz	60.0	70.0	---	
	f <sub>0</sub> +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:  $-10 \sim +60^\circ\text{C}$

## MF1103-1 TYPICAL CHARACTERISTICS



## PACKAGE OUTLINE DIMENSIONS



### Measurement Circuit

