MF1103-1

FOR IF FILTER OF PHS HAND HELD

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

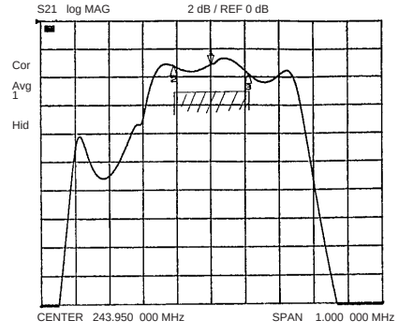
PRELIMINARY

Item	Frequency range	Min.	Typ.	Max.	Units
Center Fraquency (f_0)	243.95 MHz	– – –	– – –	– – –	– – –
Bandwidth (f_0-3 dB)	– – –	±110	±150	– – –	kHz
Insertion Loss at f_0	243.95 MHz	– – –	4.0	5.0	dB
Pass Band Ripple	$f_0 \pm 110$ kHz	– – –	1.0	1.5	dBp-p
Group Delay Ripple	$f_0 \pm 110$ kHz	– – –	0.4	1.0	SEC
Stop band Attenuation (relative to 0 dB)	f_0 –21.6 MHz	62.0	67.0	– – –	dB
	f_0 –10.8 MHz	60.0	65.0	– – –	
	f_0 – 1.2 MHz	40.0	50.0	– – –	
	f_0 – 0.7 MHz	35.0	40.0	– – –	
	f_0 – 0.6 MHz	28.0	35.0	– – –	
	f_0 – 0.5 MHz	22.0	28.0	– – –	
	f_0 + 0.5 MHz	25.0	30.0	– – –	
	f_0 + 0.6 MHz	30.0	36.0	– – –	
	f_0 + 0.7 MHz	35.0	42.0	– – –	
	f_0 + 1.2 MHz	40.0	50.0	– – –	
	f_0 +10.8 MHz	60.0	70.0	– – –	
	f_0 +21.6 MHz	60.0	65.0	– – –	
Terminal Impedance	290 Ω // 6.0 pF				
Package Size	7.0 × 5.0 × 1.8 mm				

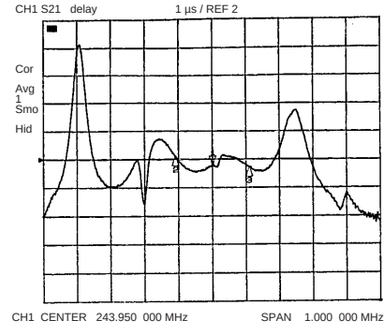
Operating temperature range: –10 ~ +60°C

MF1103-1 TYPICAL CHARACTERISTICS

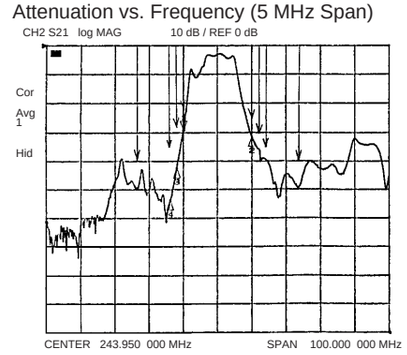
Insertion Loss vs. Frequency



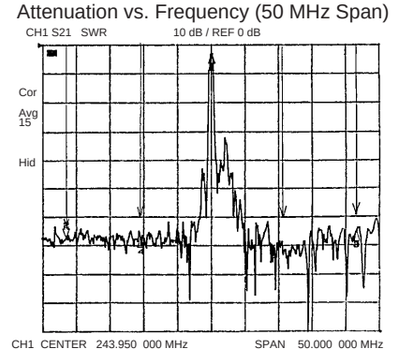
Group Delay



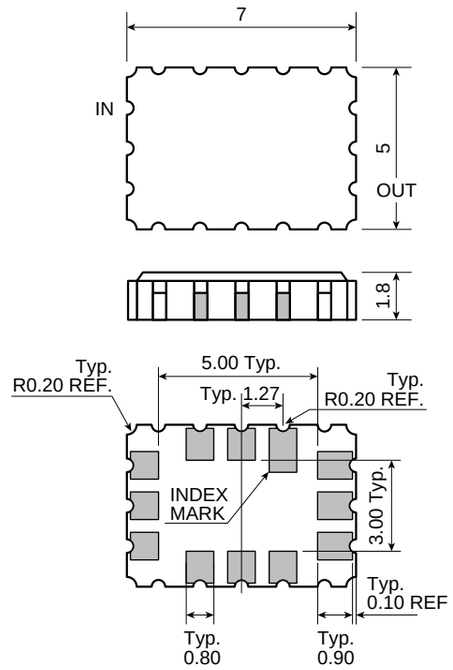
Attenuation vs. Frequency (5 MHz Span)



Attenuation vs. Frequency (50 MHz Span)



PACKAGE OUTLINE DIMENSIONS



Measurement Circuit

