

# MF1105-1

FOR IF FILTER OF GSM HAND HELD

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## DESCRIPTION

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

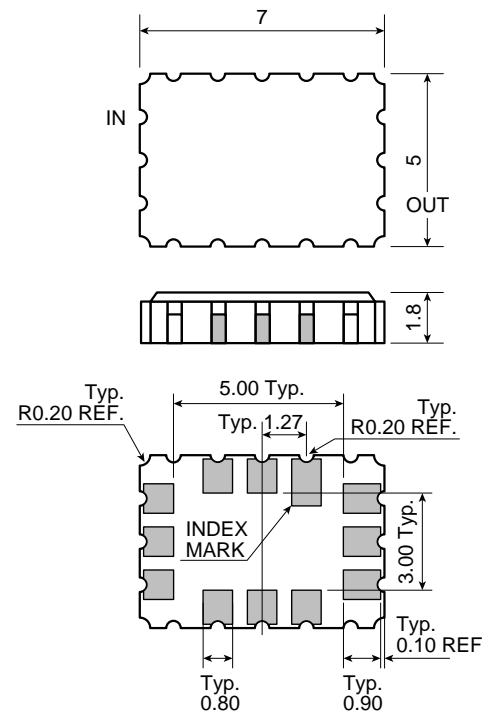
## FEATURES

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.

## APPLICATION

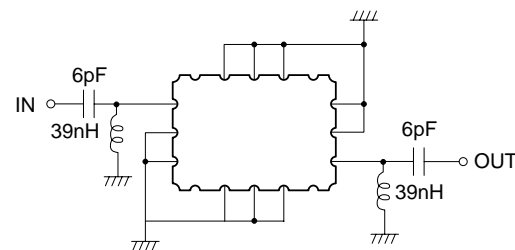
- GSM Handheld

## PACKAGE OUTLINE DIMENSIONS



Unit : mm

## Measurement Circuit



## ELECTRICAL PERFORMANCE

### PRELIMINARY

Item	Frequency range	Min.	Typ.	Max.	Units
Center Frequency ( $f_0$ )	246.0 MHz	---	---	---	---
Bandwidth ( $f_0$ -3 dB)	---	$\pm 110$	$\pm 150$	---	kHz
Insertion Loss at $f_0$	246.0 MHz	---	3.0	4.0	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	$\mu$ sec p-p
Stop band Attenuation (relative to 0 dB)	$f_0 - 21.6$ MHz	65.0	70.0	---	dB
	$f_0 - 10.8$ MHz	60.0	66.0	---	
	$f_0 - 1.2$ MHz	40.0	60.0	---	
	$f_0 - 0.7$ MHz	33.0	38.0	---	
	$f_0 - 0.6$ MHz	25.0	30.0	---	
	$f_0 - 0.5$ 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	67.0	---		
$f_0 + 21.6$ MHz	60.0	65.0	---		
Terminal Impedance	290 $\Omega$ // - 6.0 pF				
Package Size	7.0 $\times$ 5.0 $\times$ 1.8 mm				

Operating temperature range:  $-10 \sim +60^\circ\text{C}$