FOR GSM MOBILE TELEPHONE, Rx

MF1172V-1

### **DESCRIPTION**

This SAW filter for the receiving RF circuit of GSM mobile communication equipment operating at 935 MHz ~ 960 MHz.

## **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.
- ☆ Unbalanced input and balanced output.

# **APPLICATION**

- Mobile cellular telephone
- Portable cellular telephone
- Wireless equipment

## **MAXIMUM RATINGS**

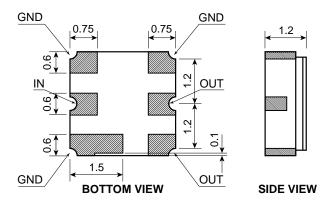
Rating	Value	Unit	
Input Power	50	mW	
Operating Temperature Range	-20 to 75	ô	
Storage Temperature Range	-30 to 85	°C	

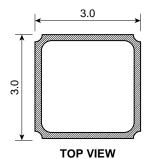
## **ELECTRICAL PERFORMANCE**

Parameter	MF Min	1172\ Typ	/-1 Max	Units
PASSBAND FREQUENCY	Y 935 – 960		60	MHz
PASSBAND CHARACTERISTICS Insertion Loss Ripple		3.2 0.8	3.8 1.5	dB dB
STOPBAND ATTENUATION 0 – 860 MHz	38	45		dB
860 – 915 MHz	20	25		dB
990 – 1025 MHz	15	25		dB

- Electrical test is performed by connecting an balun.
- Insertion loss is the value from which loss of the balun(0.6dB) is subtracted.
- The other values include loss of the balun.

## **PACKAGE OUTLINE DIMENSIONS**



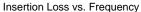


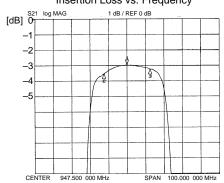
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DIMENSIONS ARE IN MILLIMETERS ±0.2 UNLESS OTHERWISE SPECIFIED

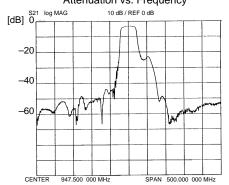
Unit: mm

# **MF1172V-1 TYPICAL CHARACTERISTICS**

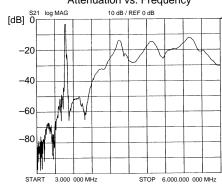




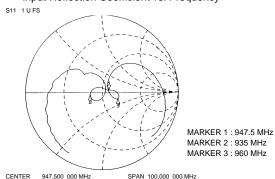
### Attenuation vs. Frequency



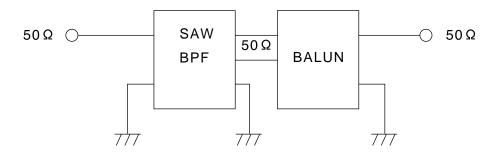
### Attenuation vs. Frequency



### Input Reflection Coefficient vs. Frequency



### Measurement Circuit



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