MF1173V-1

FOR GSM MOBILE TELEPHONE, Tx

DESCRIPTION

This SAW filter for the transmitting RF circuit of GSM mobile communication equipment operating at 890 MHz ~ 915 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.

APPLICATION

- Mobile Cellular Telephone
- Portable Cellular Telephone
- Wireless equipment

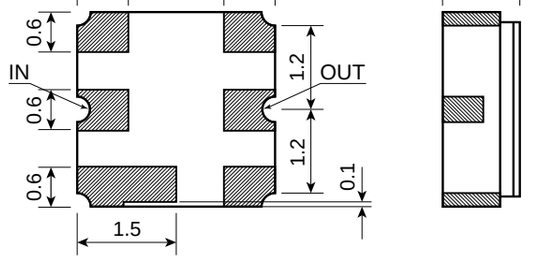
MAXIMUM RATINGS

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

ELECTRICAL PERFORMANCE

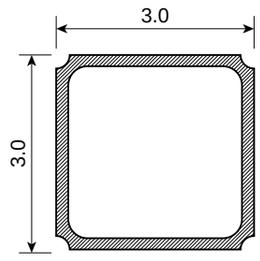
Parameter	MF1173V-1 Min	Typ	Max	Units
PASSBAND FREQUENCY	890 – 915			MHz
PASSBAND CHARACTERISTICS				
Insertion Loss		3.0	3.8	dB
Ripple		0.8	1.5	dBp-p
VSWR		1.9	2.5	
STOPBAND ATTENUATION				
0 – 820 MHz	40	45		dB
820 – 860 MHz	35	43		dB
935 – 990 MHz	20	27		dB
990 – 1200 MHz	45	58		dB

PACKAGE OUTLINE DIMENSIONS



BOTTOM VIEW

SIDE VIEW



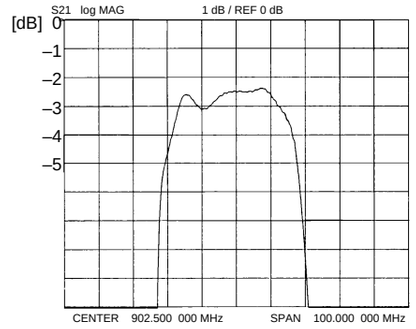
TOP VIEW

Unit : mm

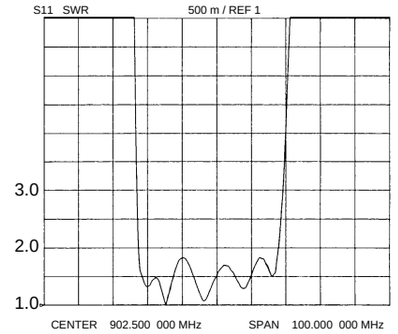
DIMENSIONS ARE IN MILLIMETERS
±0.2 UNLESS OTHERWISE SPECIFIED

MF1173V-1 TYPICAL CHARACTERISTICS

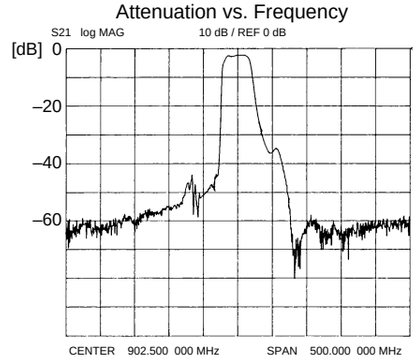
Insertion Loss vs. Frequency



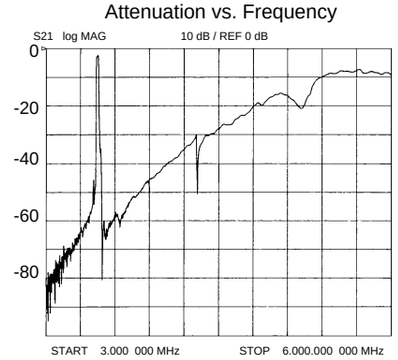
Input VSWR vs. Frequency



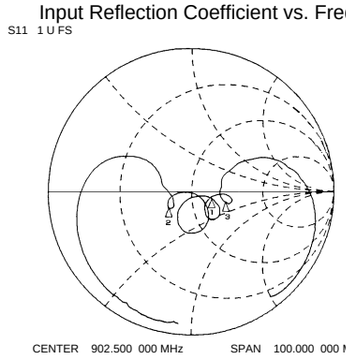
Attenuation vs. Frequency



Attenuation vs. Frequency



Input Reflection Coefficient vs. Frequency



MARKER 1 : 902.5 MHz
MARKER 2 : 890 MHz
MARKER 3 : 915 MHz