MF1090S-1

FOR E-GSM MOBILE TELEPHONE, Rx

DESCRIPTION

This SAW filter for the receiving RF circuit of E-GSM mobile communication equipment operating at 925 MHz ~ 958 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

- Digital mobile cellular telephone
- Portable digital cellular telephone
- Wireless equipment

MAXIMUM RATINGS

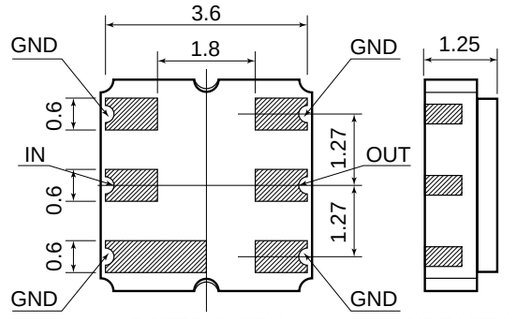
Rating	Value	Unit
Input Power	50	mW
Operating Temperature Range	–20 to 75	°C
Storage Temperature Range	–30 to 85	°C

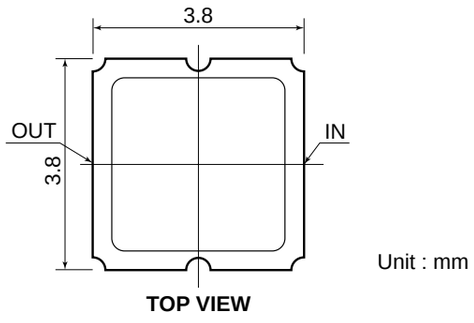
ELECTRICAL PERFORMANCE

PRELIMINARY

Parameter	MF1090S-1 Min	Typ	Max	Units
PASSBAND FREQUENCY	925 – 958			MHz
PASSBAND CHARACTERISTICS				
Insertion Loss		2.9	3.5	dB
Ripple		1.2	2.0	dBp-p
VSWR		2.3	3.0	
STOPBAND ATTENUATION				
775 – 806 MHz	25	31		dB
810 – 885 MHz	28	32		dB
1000 – 1031 MHz	30	34		dB
1075 – 1106 MHz	28	33		dB
1150 – 1181 MHz	28	33		dB
1225 – 1256 MHz	28	33		dB

PACKAGE OUTLINE DIMENSIONS



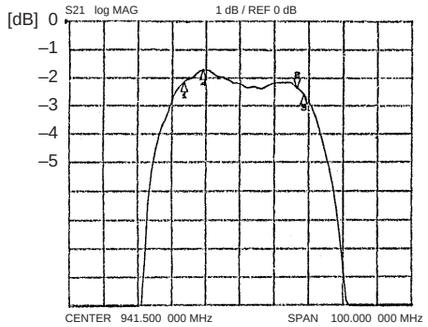


Unit : mm

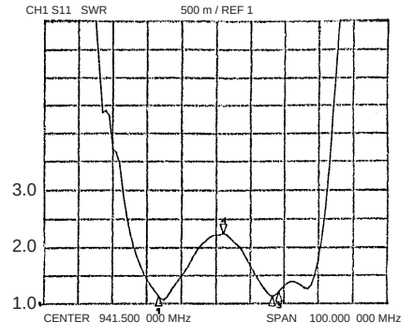
DIMENSIONS ARE IN MILLIMETERS
±0.2 UNLESS OTHERWISE SPECIFIED

MF1090S-1 TYPICAL CHARACTERISTICS

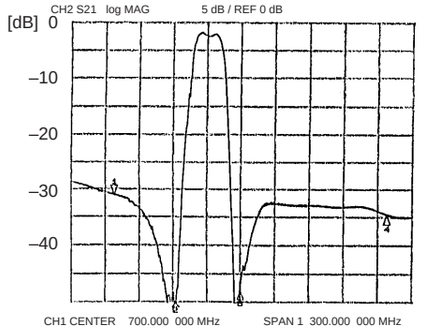
Insertion Loss vs. Frequency



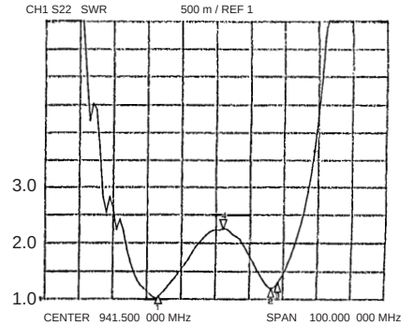
Input VSWR vs. Frequency



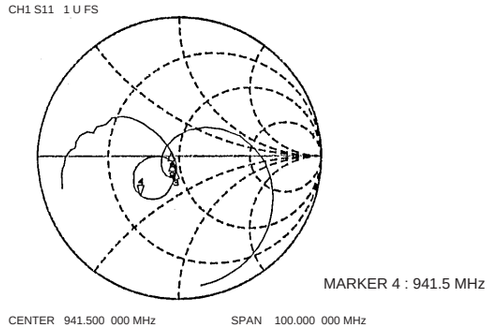
Attenuation vs. Frequency



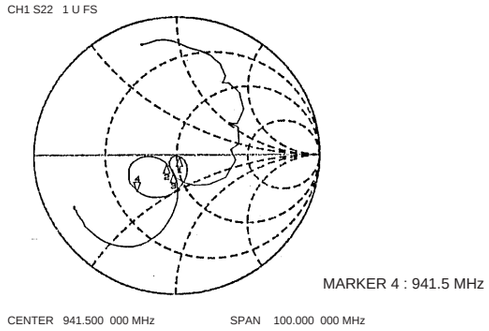
Output VSWR vs. Frequency



Input Reflection Coefficient vs. Frequency



Output Reflection Coefficient vs. Frequency



Attenuation vs. Frequency

