

MF1082V-3.0

FOR PCS MOBILE TELEPHONE, Tx

MF1082V-3.0

DESCRIPTION

This SAW filter for the transmitting RF circuit of PCS mobile communication equipment operating at 1850 MHz ~ 1910 MHz.

FEATURES

1. SMD package insures small size, lightweight.
2. Adjustment free.
3. Low insertion loss.
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

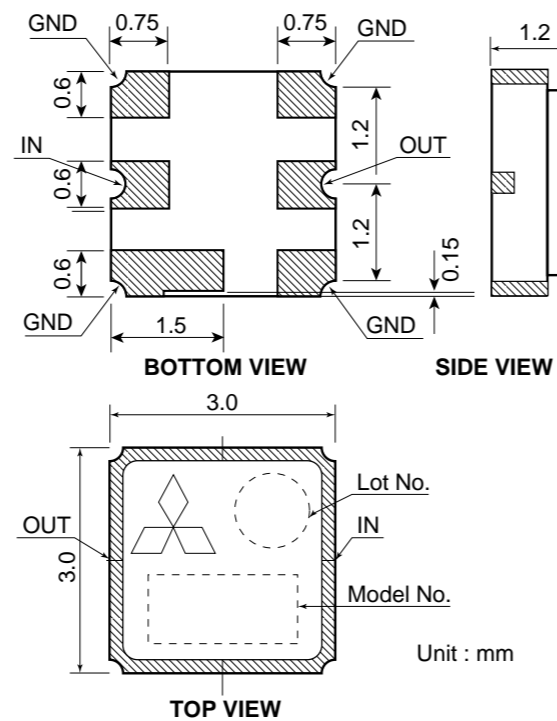
MAXIMUM RATINGS

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

ELECTRICAL PERFORMANCE

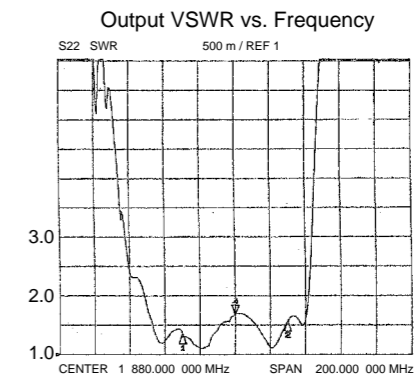
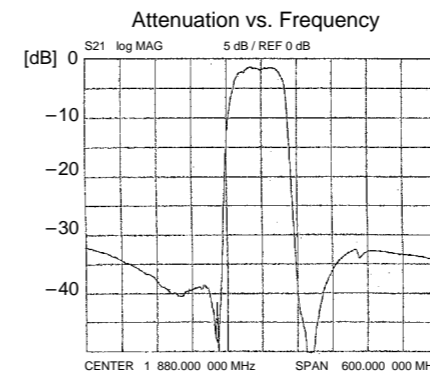
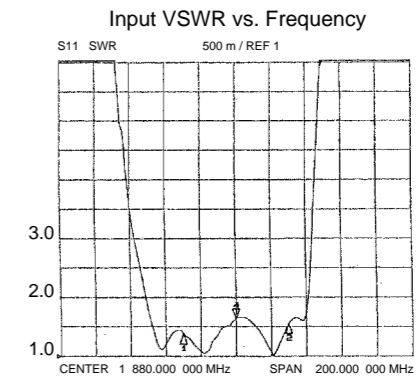
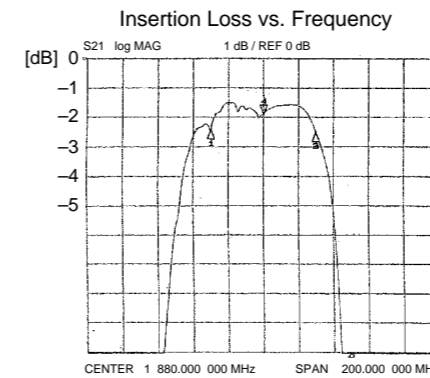
| Item | Frequency (MHz) | Specification | | | Unit |
|---|-----------------|---------------|------|------|-------|
| | | Min. | Typ. | Max. | |
| Insertion Loss | 1850 – 1910 | – | 3.0 | 4.5 | dB |
| Passband Ripple | 1850 – 1910 | – | 1.4 | 3.0 | dBp-p |
| VSWR (Input/Output) | 1850 – 1910 | – | 1.7 | 2.5 | – |
| Stopband Attenuation (Relative to Odb) | 0 – 1500 | 20 | 23 | – | dB |
| | 1500 – 1800 | 25 | 30 | – | |
| | 1930 – 1990 | 7 | 14 | – | |
| | 1990 – 2350 | 28 | 33 | – | |
| | 2350 – 3000 | 25 | 30 | – | |

PACKAGE OUTLINE DIMENSIONS

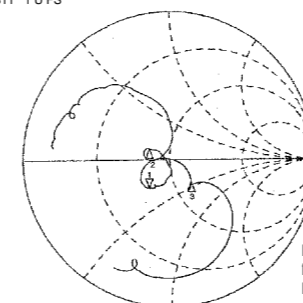


DIMENSIONS ARE IN MILLIMETERS
±0.2 UNLESS OTHERWISE SPECIFIED

MF1082V-3.0 TYPICAL CHARACTERISTICS



Input Reflection Coefficient vs. Frequency
S11 1 UFS



Output Reflection Coefficient vs. Frequency
S22 1 UFS

