# MF1050V-4

**FOR DIGITAL MOBILE TELEPHONE, Rx**



## DESCRIPTION

This SAW filter for the receiving RF circuit of digital mobile communication equipment operating at 1477 MHz ~ 1501 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

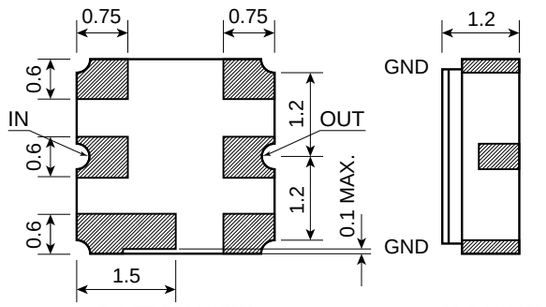
## MAXIMUM RATINGS

| Rating | Value | Unit |
|---|---|---|
| Input Power | 40 | mW |
| Operating Temperature Range | –20 to 75 | °C |
| Storage Temperature Range | –30 to 85 | °C |

## ELECTRICAL PERFORMANCE

| Parameter | MF1050V-4 Min | Typ | Max | Units |
|---|---|---|---|---|
| PASSBAND FREQUENCY | 1477 – 1501 | | | MHz |
| PASSBAND CHARACTERISTICS | | | | |
| Insertion Loss | | 2.5 | 3.5 | dB |
| Ripple | | 0.6 | 1.5 | dBp-p |
| VSWR | | 2.0 | 2.5 | |
| STOPBAND ATTENUATION | | | | |
| 0 – 1050 MHz | 40 | 48 | | dB |
| 1050 – 1380 MHz | 25 | 30 | | dB |
| 1429 – 1453 MHz | 15 | 18 | | dB |
| 1542 – 1566 MHz | 25 | 32 | | dB |
| 1607 – 1631 MHz | 40 | 45 | | dB |
| 1737 – 1761 MHz | 35 | 40 | | dB |
| 1761 – 3000 MHz | 23 | 27 | | dB |

## PACKAGE OUTLINE DIMENSIONS



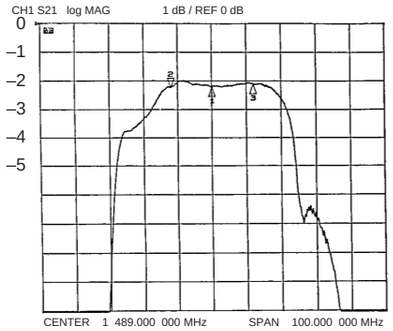

Unit : mm

DIMENSIONS ARE IN MILLIMETERS
±0.2 UNLESS OTHERWISE SPECIFIED

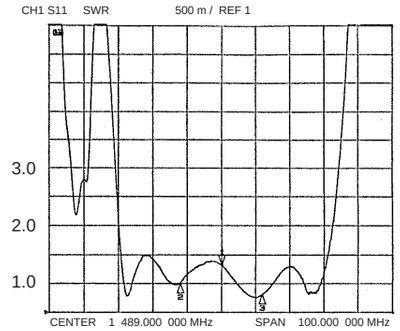


## MF1050V-4 TYPICAL CHARACTERISTICS

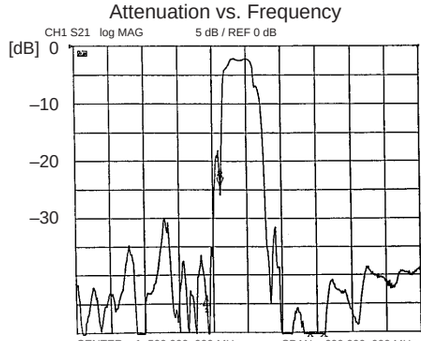
Insertion Loss vs. Frequency



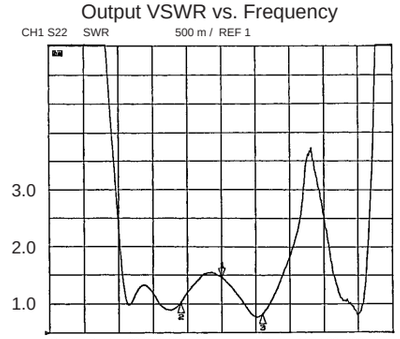

Input VSWR vs. Frequency



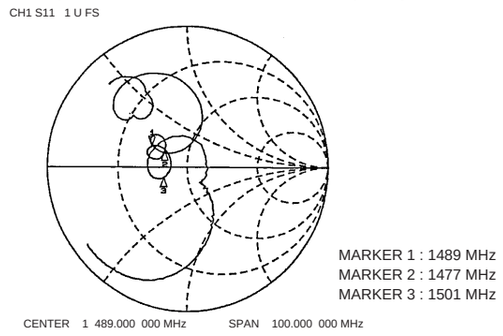

Attenuation vs. Frequency



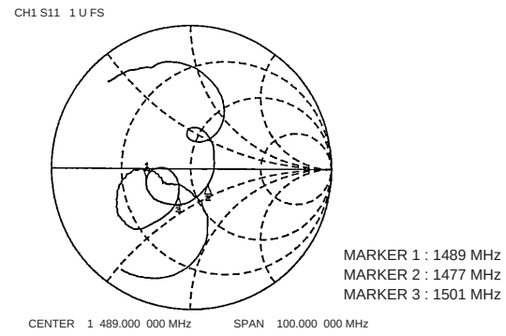

Output VSWR vs. Frequency




Input Reflection Coefficient vs. Frequency




Output Reflection Coefficient vs. Frequency




Attenuation vs. Frequency

