

MF1105-1

FOR IF FILTER OF GSM HAND HELD

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DESCRIPTION

This SAW filter for the IF filter circuit of GSM hand held

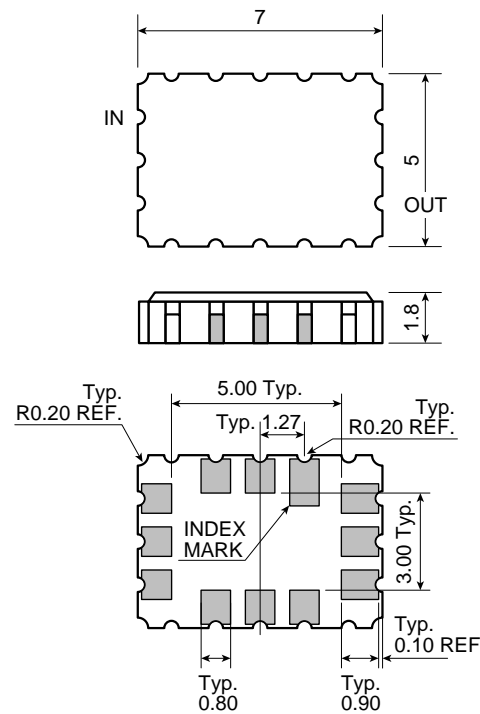
FEATURES

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

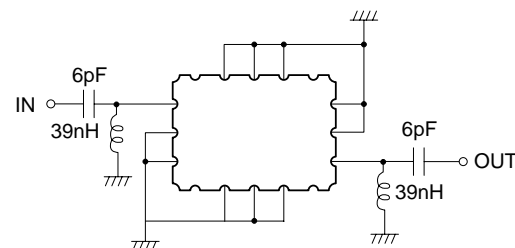
- GSM Handheld

PACKAGE OUTLINE DIMENSIONS



Unit : mm

Measurement Circuit



ELECTRICAL PERFORMANCE

PRELIMINARY

| Item | Frequency range | Min. | Typ. | Max. | Units |
|--|----------------------------------|-----------|-----------|------|---------------|
| Center Frequency (f_0) | 246.0 MHz | --- | --- | --- | --- |
| Bandwidth (f_0 -3 dB) | --- | ± 110 | ± 150 | --- | kHz |
| Insertion Loss at f_0 | 246.0 MHz | --- | 3.0 | 4.0 | dB |
| Pass Band Ripple | $f_0 \pm 110$ kHz | --- | 1.0 | 1.5 | dBp-p |
| Group Delay Ripple | $f_0 \pm 110$ kHz | --- | 0.4 | 1.0 | μ sec p-p |
| Stop band Attenuation (relative to 0 dB) | $f_0 - 21.6$ MHz | 65.0 | 70.0 | --- | dB |
| | $f_0 - 10.8$ MHz | 60.0 | 66.0 | --- | |
| | $f_0 - 1.2$ MHz | 40.0 | 60.0 | --- | |
| | $f_0 - 0.7$ MHz | 33.0 | 38.0 | --- | |
| | $f_0 - 0.6$ MHz | 25.0 | 30.0 | --- | |
| | $f_0 - 0.5$ MHz | 22.0 | 28.0 | --- | |
| | $f_0 + 0.5$ MHz | 25.0 | 30.0 | --- | |
| | $f_0 + 0.6$ MHz | 30.0 | 36.0 | --- | |
| | $f_0 + 0.7$ MHz | 35.0 | 42.0 | --- | |
| | $f_0 + 1.2$ MHz | 40.0 | 50.0 | --- | |
| $f_0 + 10.8$ MHz | 60.0 | 67.0 | --- | | |
| $f_0 + 21.6$ MHz | 60.0 | 65.0 | --- | | |
| Terminal Impedance | 290 Ω // - 6.0 pF | | | | |
| Package Size | 7.0 \times 5.0 \times 1.8 mm | | | | |

Operating temperature range: -10 ~ +60°C