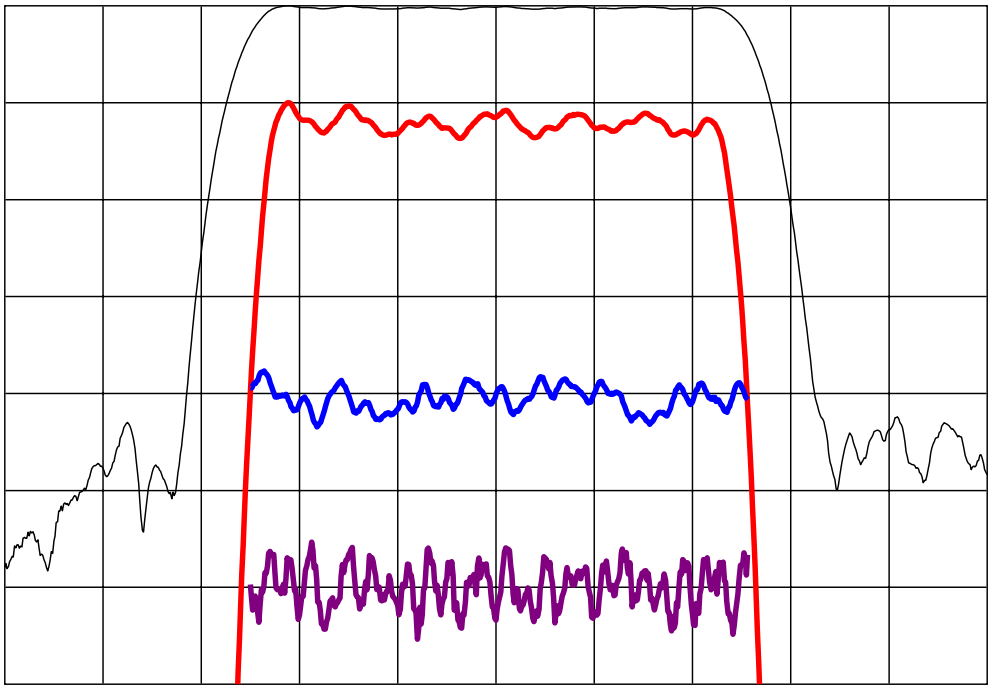
## DESCRIPTION

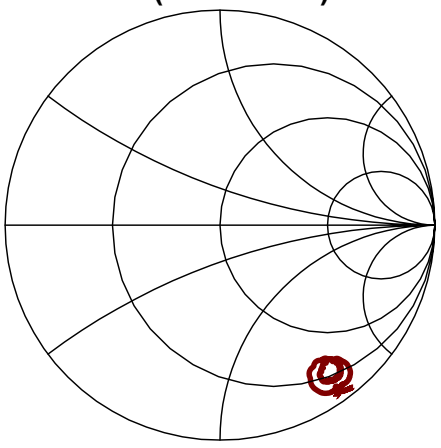
- 44 MHz SAW bandpass filter with 6 MHz bandwidth.
- 35 X 20 mm 24 pin DIP package.
- RoHS compliant.

## TYPICAL PERFORMANCE

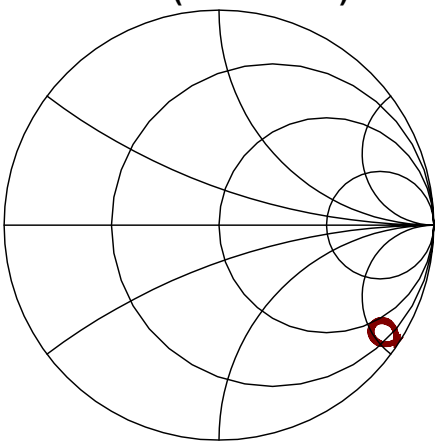


| | | | |
|---|---|---|---|
| Horizontal: | Frequency : | 1.2 | MHz/div |
| Vertical: | Relative Magnitude : | 10 | dB/div |
| | Relative Magnitude : | 1 | dB/div |
| | Phase Linearity : | 2.5 | deg/div |
| | Group Delay : | 50 | ns/div |

**S11 (38-50 MHz)**



**S22 (38-50 MHz)**



**Spectrum Microwave**
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## SPECIFICATION

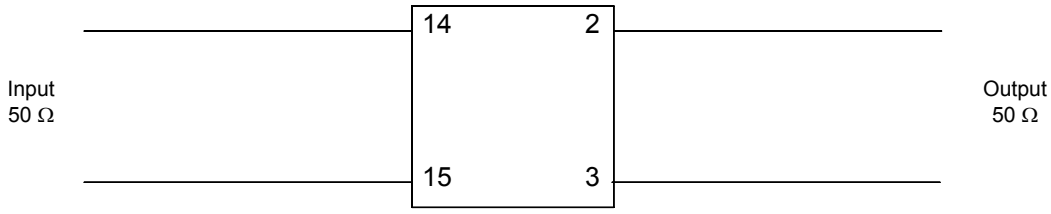
| Parameter | Min | Typ | Max | Units |
|---|---|---|---|---|
| Center Frequency ( Fc) [1] | 43.8 | 44.0 | 44.2 | MHz |
| Insertion Loss [2] | - | 21.5 | 23.0 | dB |
| 1 dB Bandwidth | 5.5 | 5.7 | - | MHz |
| 3 dB Bandwidth | 6.0 | 6.1 | - | MHz |
| 38 dB Bandwidth | - | 7.6 | 8.0 | MHz |
| Passband Amplitude Ripple [3] | - | 0.4 | 0.6 | dB |
| Passband Phase Ripple [3] | - | 1.5 | 3.0 | deg p-p |
| Passband GD Ripple [3] | - | 50 | 80 | ns |
| Stopband Rejection( 10 to 39 MHz) [3] | 40 | 45 | - | dB |
| Stopband Rejection (49 to 80 MHz) [3] | 40 | 45 | - | dB |
| Absolute Delay | - | 2.08 | - | us |
| Passband Group Delay Ripple [2] | - | 40 | 60 | ns p-p |
| Source and Load Impedance | | 50 | | ohms |
| Temperature Coefficient of Frequency | | -72 | | ppm/˚C |
| Ambient Temperature | | 25 | | ˚C |

Notes: 1. Mean value of the 3 dB band edge frequencies.
2. Defined at 44 MHz.
3. Dependent upon PC board layout.

## MAXIMUM RATINGS

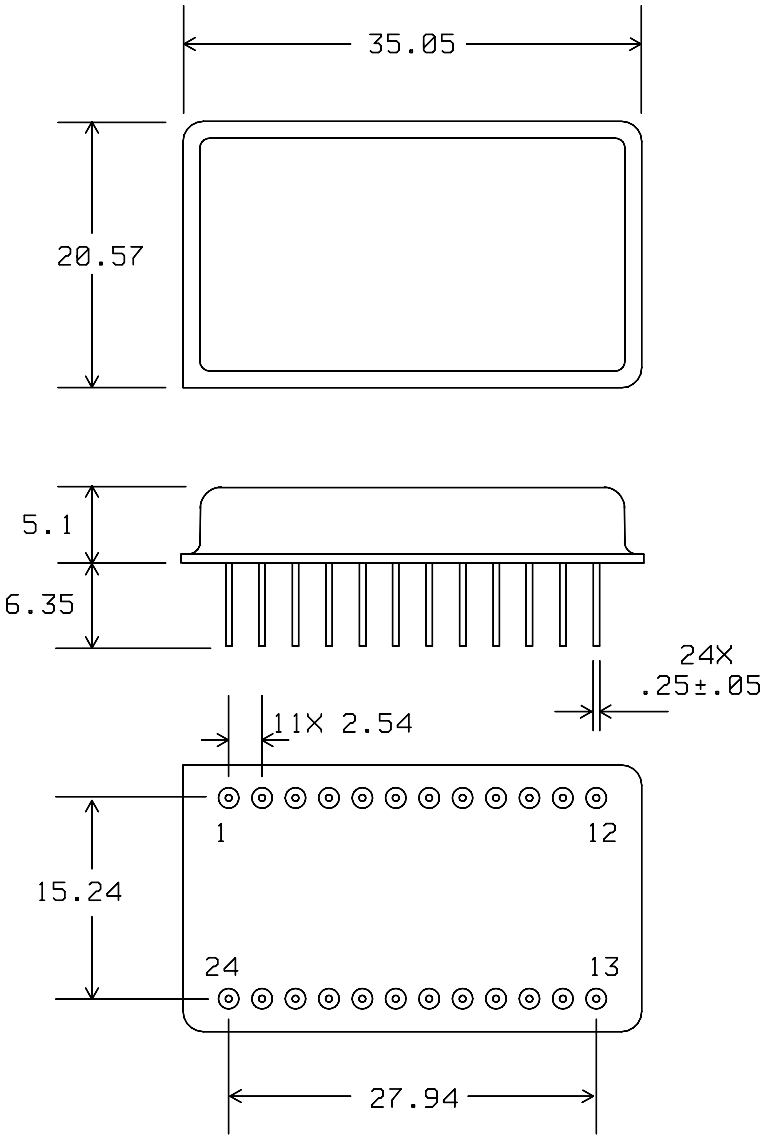
| Parameter | Min | Max | Units |
|---|---|---|---|
| Storage Temperature Range | -40 | 85 | ˚C |
| Input Power Level | - | 13 | dBm |

## MATCHING CIRCUIT




Note: Matching components are not required.

## PACKAGE OUTLINE




**Units:** mm

Tolerances are ±0.15 mm except where indicated.

**Pin Configuration:**

| | |
|---|---|
| Input: | 14 |
| Input return: | 15 |
| Output: | 2 |
| Output return: | 3 |
| Ground: | 1, 4, 16 |

ISO 9001
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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