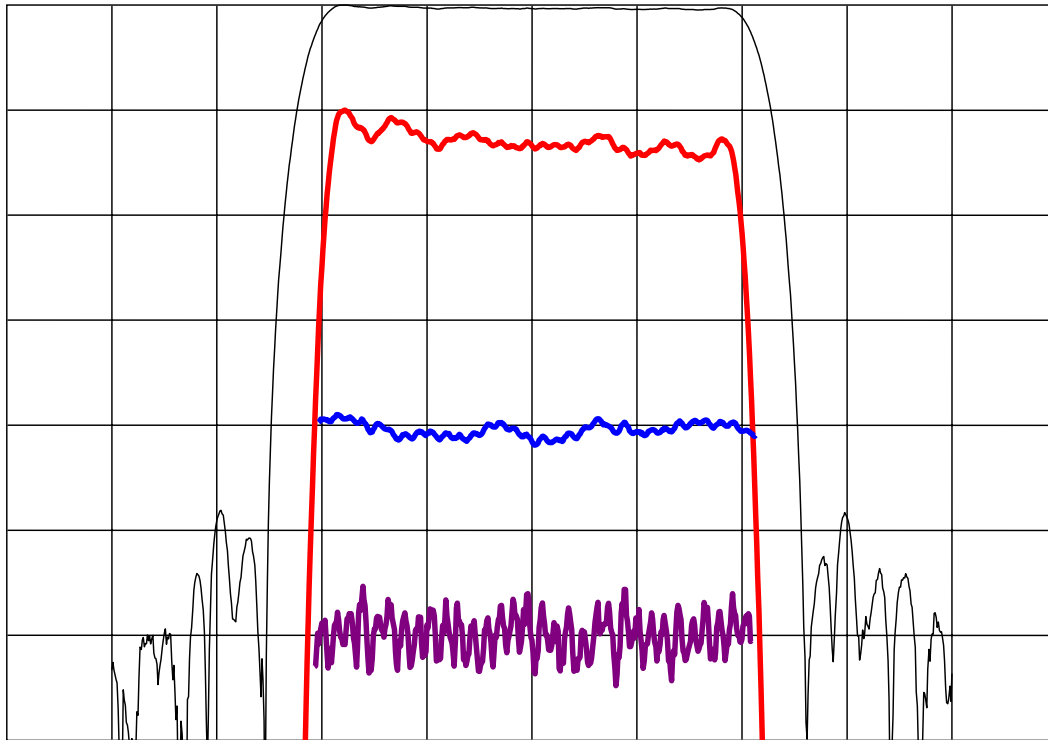


DESCRIPTION

- 38 MHz SAW bandpass filter with a 6 MHz bandwidth.
- 35.1 x 20.6 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE



Horizontal: Frequency : 1.5 MHz/div
Vertical from Top: Relative Magnitude : 10 dB/div
Relative magnitude : 1 dB/div
Phase : 5 deg/div
Group Delay Deviation : 50 ns/div

SPECIFICATION

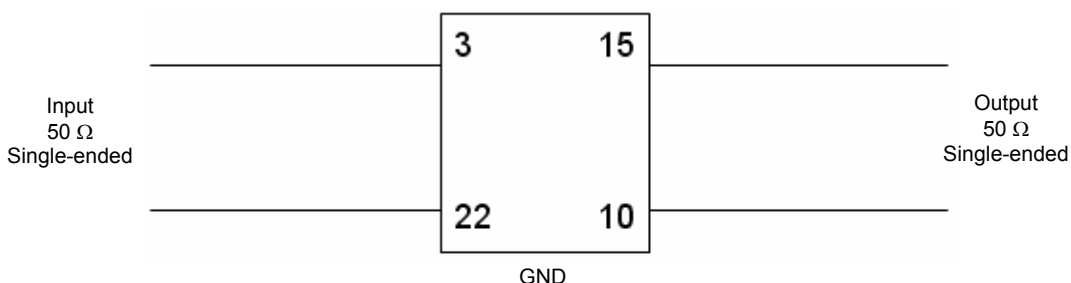
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	37.90	38.00	38.10	MHz
Insertion Loss	-	23	25	dB
1 dB Bandwidth	-	5.90	-	MHz
3 dB Bandwidth	6.00	6.30	-	MHz
38 dB bandwidth	-	7.50	7.60	MHz
Amplitude Ripple ²	-	0.5	1.0	dB p-p
Phase Ripple ²	-	2	5	deg p-p
Group Delay Ripple ²	-	40	75	ns p-p
Rejection (10 to 33.75 MHz)	45	50	-	dB
Rejection (42.25 to 70 MHz)	45	50	-	dB
Absolute Delay	-	2.5	-	us
Ambient Temperature (Tref)	-	25	-	° C
Source/Load Impedance	-	50	-	Ω

- Notes:
1. Average of lower & upper 3 dB frequencies.
 2. Measured over Fc+/-2.65 MHz
 3. Typical change of filter frequency response with temperature is $\Delta f = (T-T_{ref}) * T_c * F_c$, in ppm.

MAXIMUM RATINGS

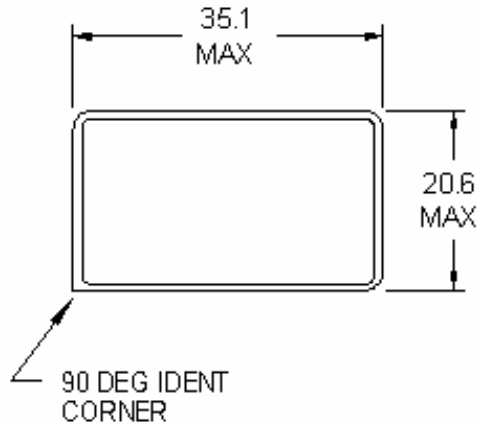
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	°C
Temperature Coefficient of Frequency (Tc) ³	-	-74	-	ppm/°C
Input Power Level	-	0	10	dBm

MATCHING CIRCUIT



Note: External matching components are not required.

PACKAGE OUTLINE

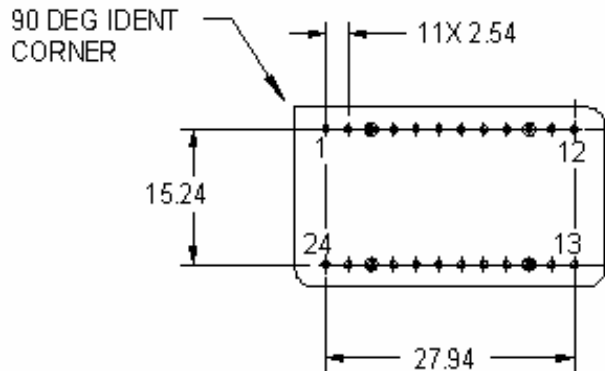
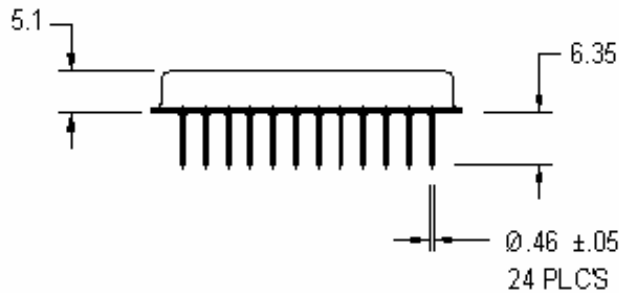


Units: mm

Tolerances are ± 0.15 mm except for the overall length and width, which are nominal values.

Pin Configuration:

Input:	3
Input return:	22
Output:	15
Output return:	10
Ground:	All other pins



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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