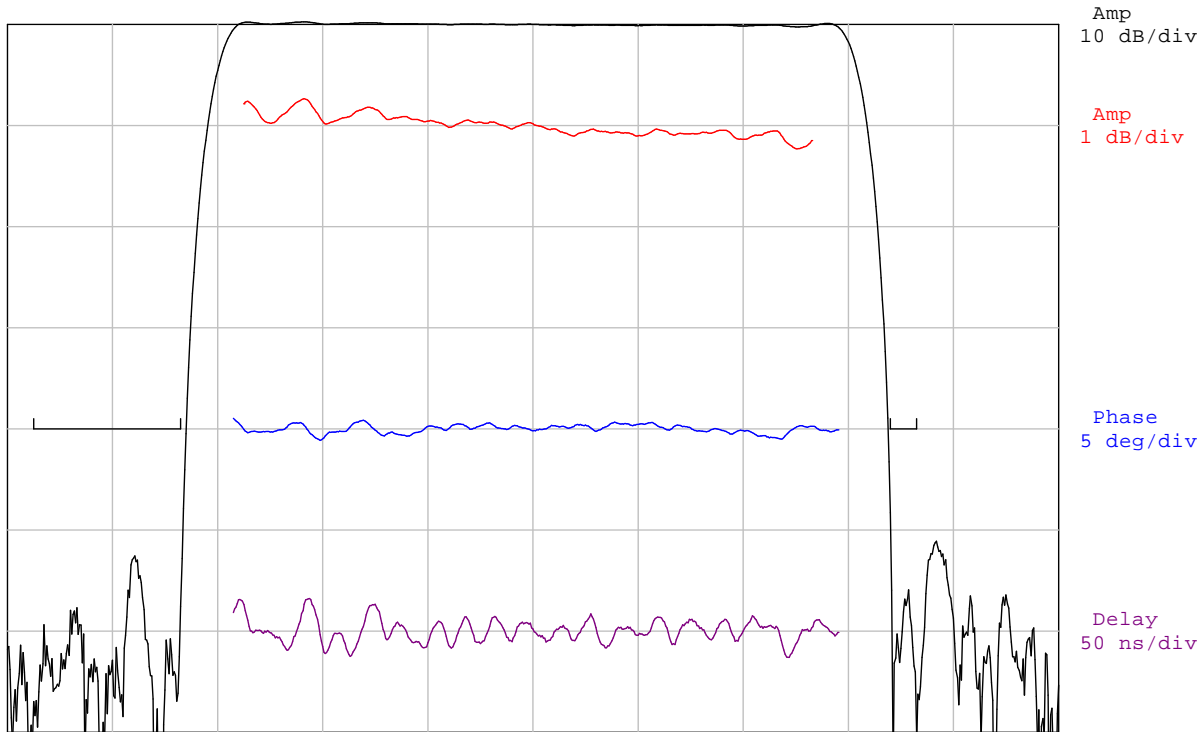


DESCRIPTION

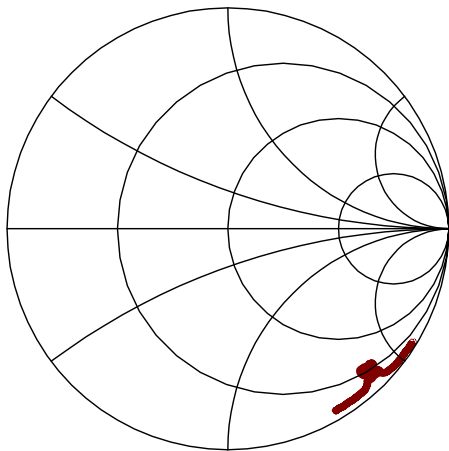
- 36.8 MHz SAW bandpass filter with 5.75 MHz Bandwidth for VSB system B/G-IF applications.
- 35.05 x 20.57 mm DIP package, 24 pins.
- RoHS compliant.

TYPICAL PERFORMANCE

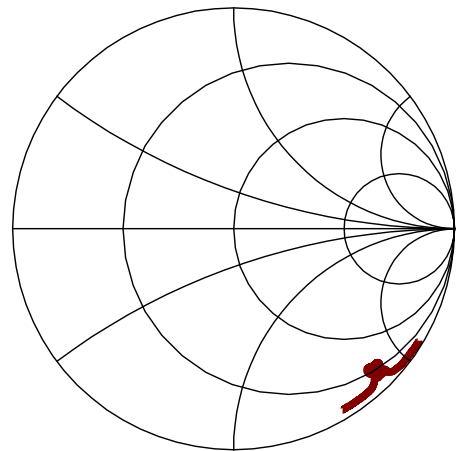


Center = 36.8 MHz, 1 MHz/div (801 points)

S11 (31.8-41.8 MHz)



S22 (31.8-41.8 MHz)



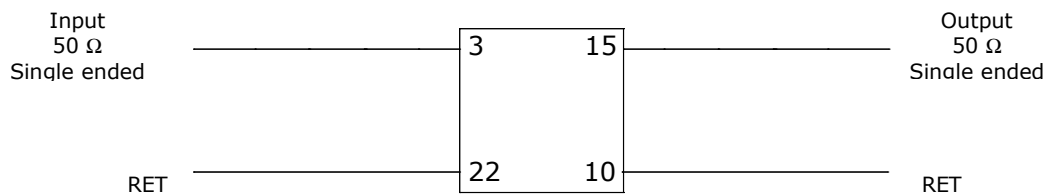
SPECIFICATION

Parameter	Min	Typ	Max	Units
F_visual	-	38.9	-	MHz
F_color	-	34.5	-	MHz
F_audio	-	33.4	-	MHz
Center Frequency (Nominal)	-	36	-	MHz
Insertion Loss	-	27.5	29	dB
1 dB Lower Band Edge	-	33.91	33.95	MHz
1 dB Upper Band Edge	39.65	39.76	-	MHz
Passband Ripple (34.0-39.4 MHz)	-	0.45	0.5	dB p-p
Phase Deviation (33.9-39.65 MHz)	-	3	5	deg p-p
GD Ripple (33.9-39.65 MHz)	-	40	50	ns p-p
Rejection (20-32 MHz)	50	55	-	dB
Rejection at 33.4 MHz	40	45	-	dB
Rejection at 40.15 MHz	40	45	-	dB
Rejection (40.4-55.0 MHz)	50	55	-	dB
2T K Factor	-	0.5	-	%
Pulse to Bar Ratio	-	1.5	-	%
Absolute Delay	-	4.5	-	us
Ambient Temperature	37	40	43	°C
Temperature Coefficient	-72			ppm/°C
Source/Load Impedance	50			Ω
Substrate Material	128 Lithium Niobate			

MAXIMUM RATINGS

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

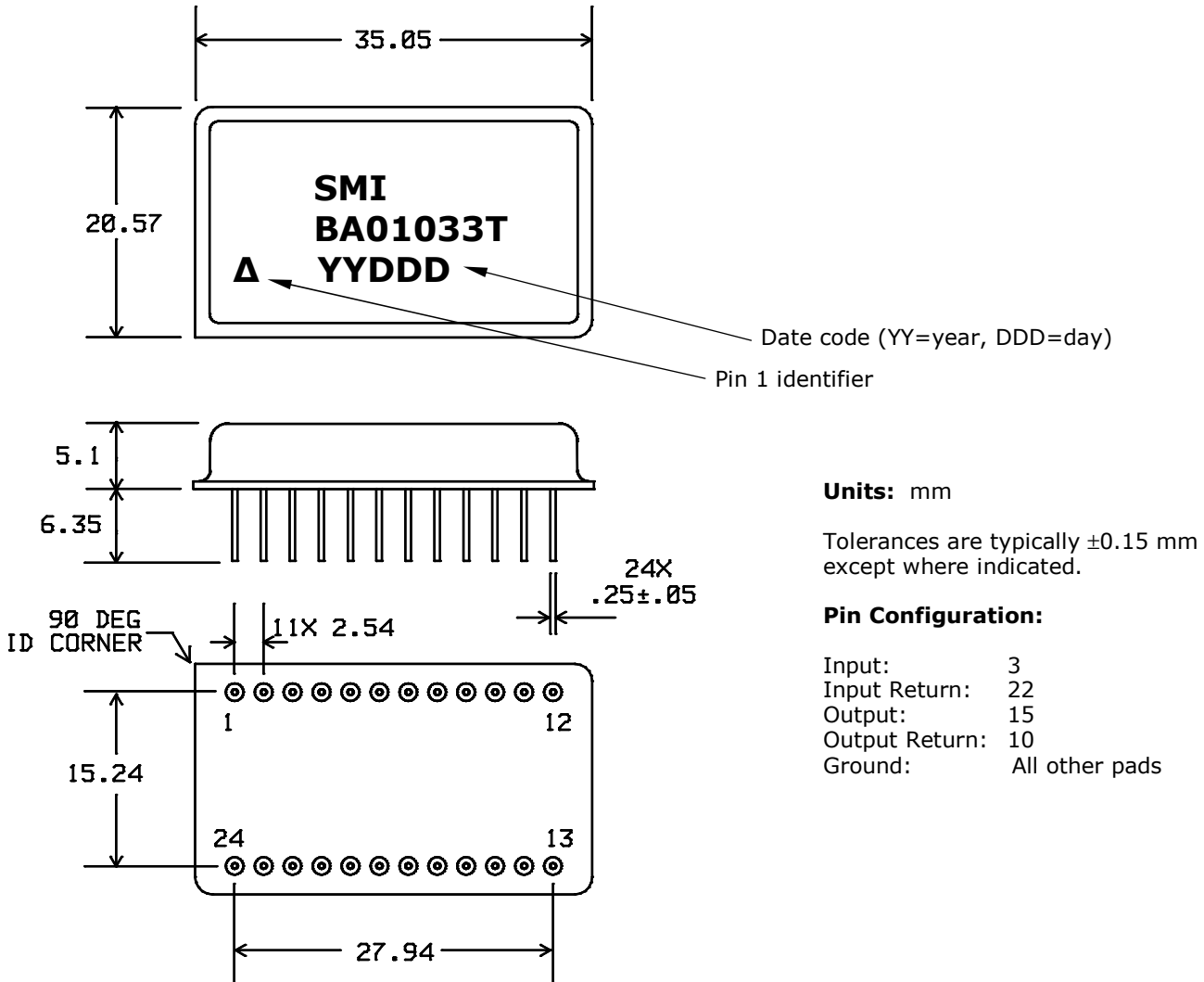
MATCHING CIRCUIT



Notes:

- External matching components are not required.
- Device is intended to operate in a 50 Ω single ended system.

PACKAGE OUTLINE



Units: mm

Tolerances are typically ± 0.15 mm except where indicated.

Pin Configuration:

- Input: 3
- Input Return: 22
- Output: 15
- Output Return: 10
- Ground: All other pads

**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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