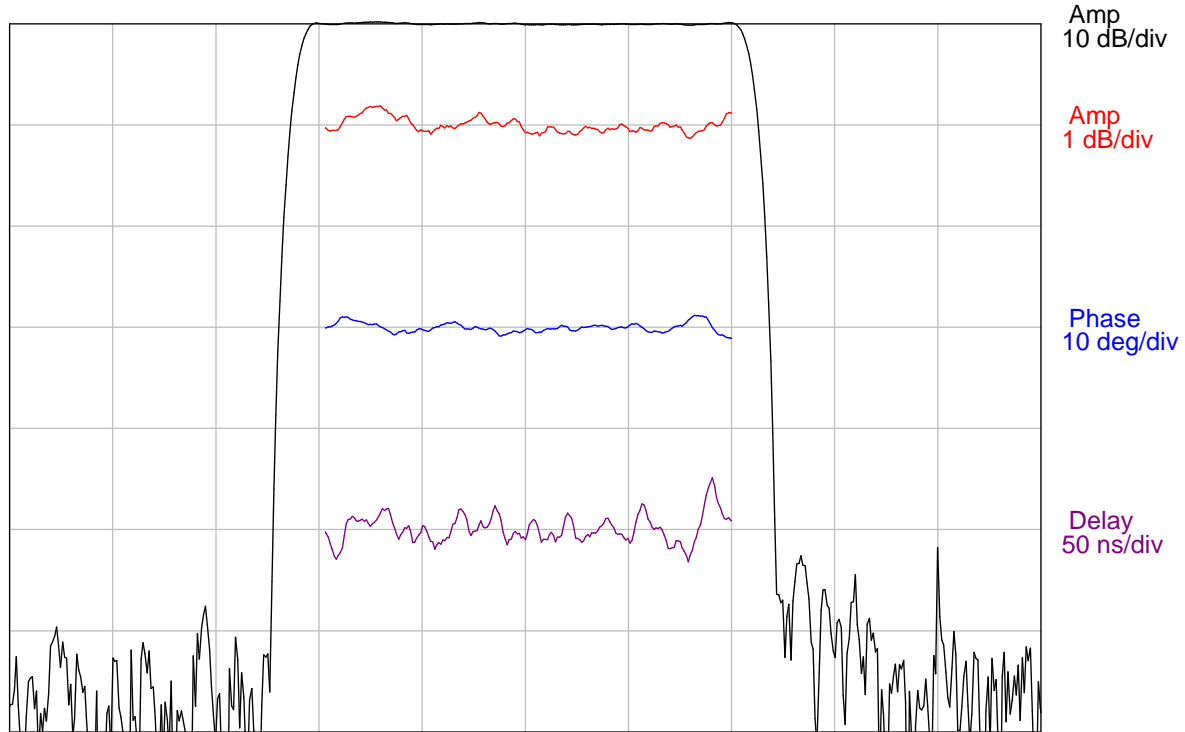


**DESCRIPTION**

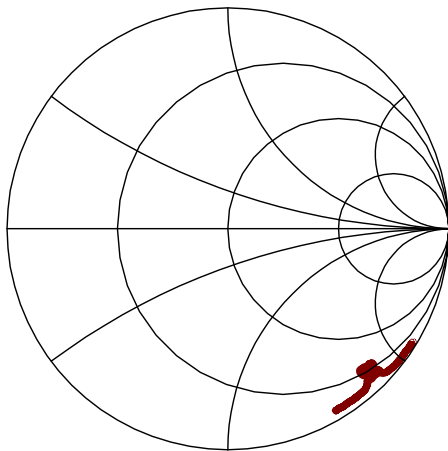
- 36 MHz SAW bandpass filter with 6.75 MHz Bandwidth for VSB system L-IF applications.
- 35.05 x 20.57 mm DIP package, 24 pins.
- RoHS compliant.

**TYPICAL PERFORMANCE**

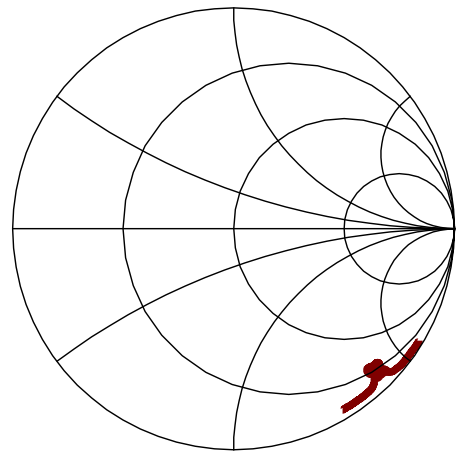


Center = 35.3 MHz, 1.6 MHz/div (31.3 kHz incr)

**S11 (27.3-43.3 MHz)**



**S22 (27.3-43.3 MHz)**



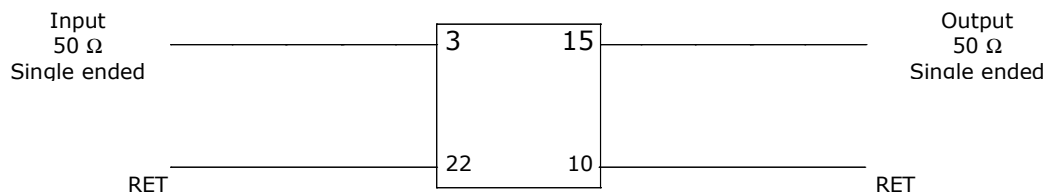
## SPECIFICATION

Parameter	Min.	Typ.	Max.	Units.
F_visual	-	38.9	-	MHz
F_color	-	32.9	-	MHz
F_audio	-	32.4	-	MHz
Center Frequency (Nominal)	-	36	-	MHz
Insertion Loss	28	30.5	32	dB
2 dB Lower Band Edge	-	31.84	31.95	MHz
2 dB Upper Band Edge	38.7	38.73	-	MHz
Passband Ripple (32.7-38.7 MHz)	-	0.25	0.8	dB p-p
Phase Deviation (32.2-38.7 MHz)	-	2.5	8	deg p-p
GD Ripple (32.2-38.7 MHz)	-	30	50	ns p-p
Rejection (20-31.1 MHz)	45	55	-	dB
Rejection (31.1-31.3 MHz)	52	60	-	dB
Rejection (39.4-65.0 MHz)	45	55	-	dB
2T K Factor	-	1	-	%
C/L Delay - 12.5 T	-	5	-	ns
Absolute Delay	-	4.5	-	us
Ambient Temperature	40			° C
Temperature Coefficient	-74			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

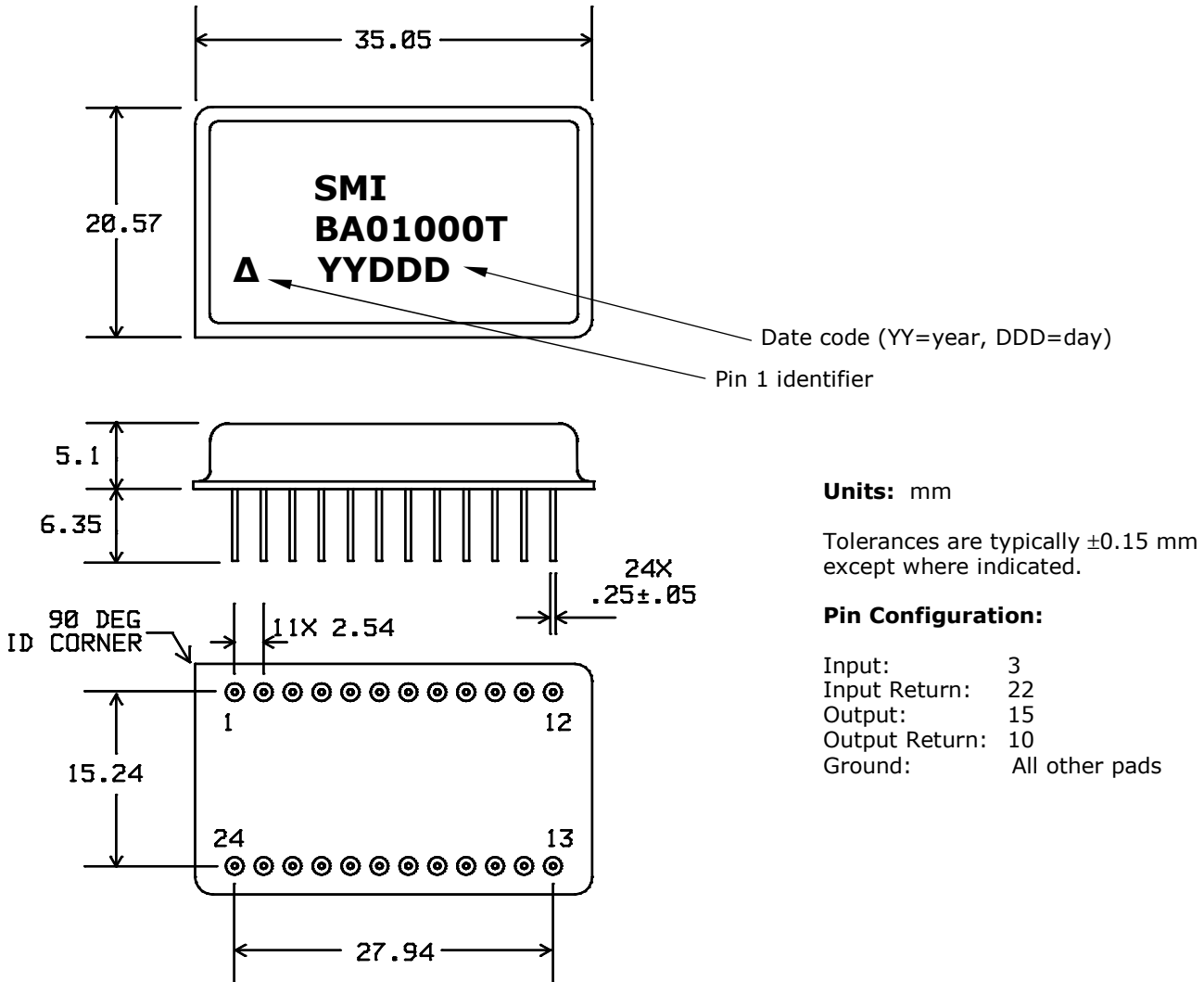
## MATCHING CIRCUIT



### 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  $\pm 0.15$  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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