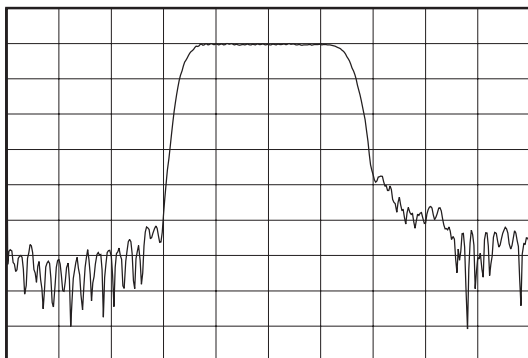
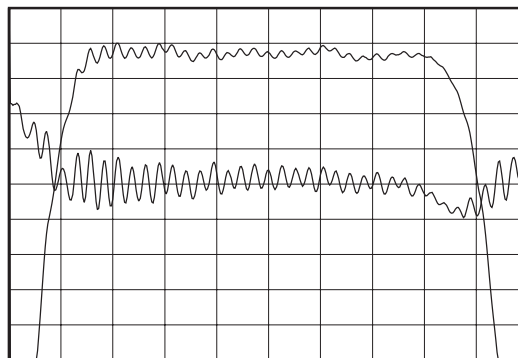


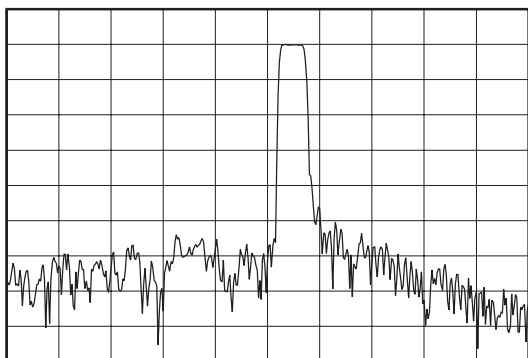
Typical Performance



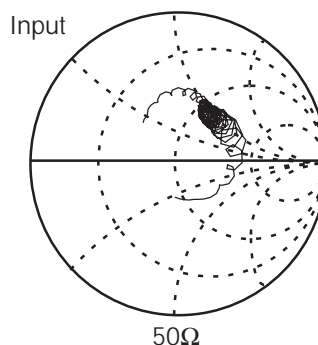
Horizontal: 8 MHz/Div
Vertical: 10 dB/Div



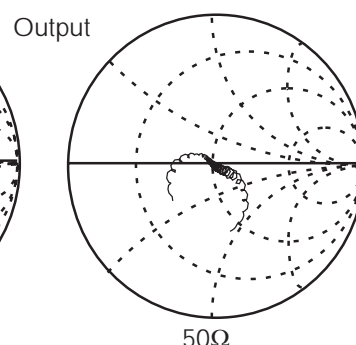
Horizontal: 3 MHz/Div
Vertical: 1 dB/Div, 30 nsec/Div



Horizontal: 50 MHz/Div
Vertical: 10 dB/Div



50Ω



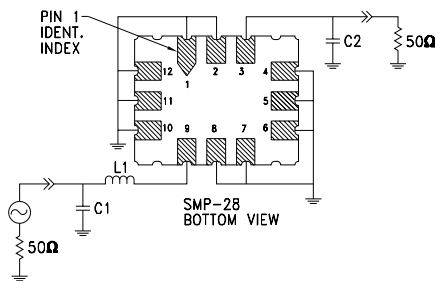
50Ω

Specifications

Parameter	Unit	Minimum	Typical	Maximum
Center Frequency	MHz	-	374	-
Insertion Loss	dB	-	8.5	11
3 dB Bandwidth	MHz	± 8.5	± 12	-
Passband Ripple (over 90% of 1 dB BW)	dB p-p	-	0.6	1
Group Delay Ripple	nsec	-	60	100
Rejection: 274 - 341 MHz	dB	50	55	-
Rejection: 341 - 352 MHz	dB	40	60	-
Rejection: 352 - 357.5 MHz	dB	10	50	-
Rejection: 390.5 - 396 MHz	dB	10	37	-
Rejection: 396 - 430 MHz	dB	30	45	-
Rejection: 430 - 474 MHz	dB	45	50	-
Triple Transit Suppression	dB	30	40.5	-
Substrate Material	-	-	YZ LiNbO ₃	-
Operating Temperature Range	°C	-40	25	85

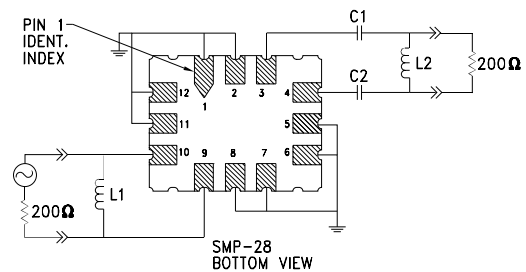
- (1) Sawtek's production specifications reflect the typical performance in a 50 ohm single-ended system. This filter can be used in both single-ended and/or differential modes at each port. In addition, similar performance can be achieved in source and load impedances ranging from 50 to 500 ohms.
- (2) The typical insertion loss may vary slightly depending on actual source and load impedances, matching configuration and PC board layout.
- (3) No Triple Transit gating required.
- (4) Inductors with $\pm 2\%$ tolerance may be required.
- (5) In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature.

50Ω Single-ended



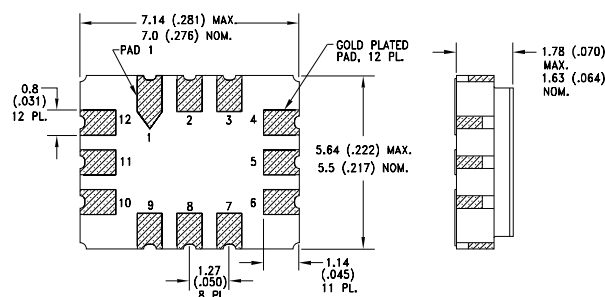
L1 = 22 nH
C1 = 12 pf, C2 = 15 pf

200Ω Balanced / 200Ω Balanced



L1 = 27 nH, L2 = 15nH
C1 = 22 pf, C2 = 22 pf

SMP-28B



Dimensions shown are in
millimeters (inches).