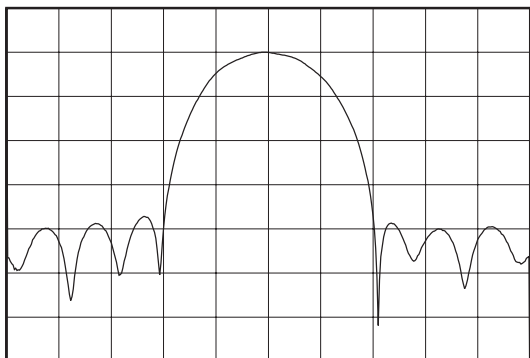
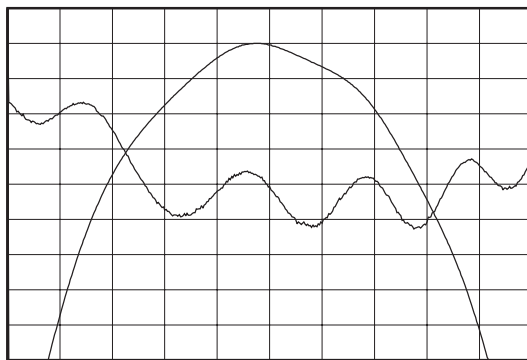


Preliminary Specifications

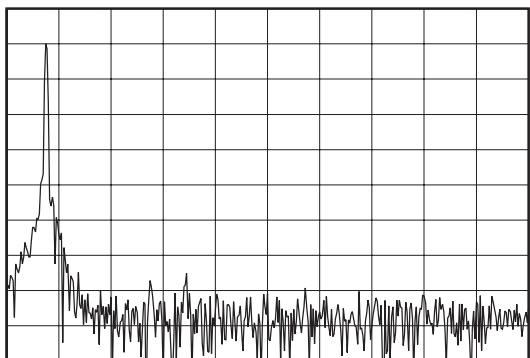
Typical Performance



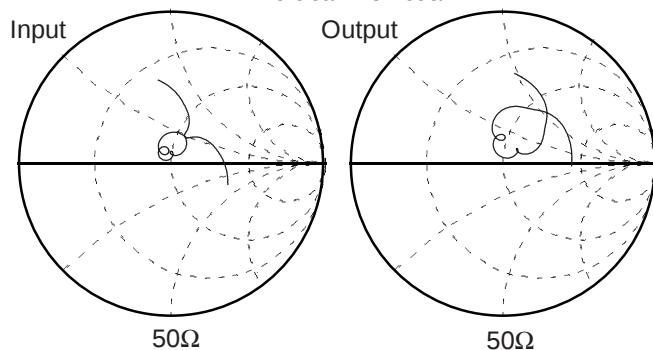
Horizontal: 1 MHz/Div
Vertical: 10 dB/Div



Horizontal: 300 kHz/Div
Vertical: 1 dB/Div
Vertical: 25 nsec/Div



Horizontal: 40 MHz/Div
Vertical: 10 dB/Div



50Ω

50Ω

Specifications

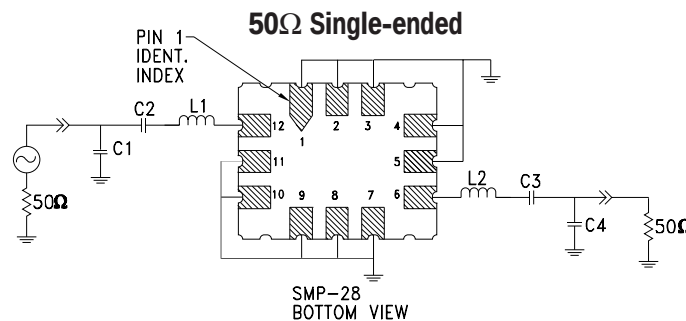
Parameter ⁽¹⁾	Unit	Minimum	Typical	Maximum
Center Frequency, f_0	MHz	-	130.38	-
Insertion Loss at f_0	dB	-	9.3 ⁽²⁾	12
Lower 3 dB Bandedge	MHz	-	129.558	129.765
Upper 3 dB Bandedge	MHz	130.995	131.126	-
Lower 25 dB Bandedge	MHz	128.4	128.591	-
Upper 25 dB Bandedge	MHz	-	132.202	132.36
Phase Linearity	degrees	-	1.554	7
Group Delay Variation	nsec	-	36	150
Passband Ripple ⁽³⁾	dB	-	0	1
Ultimate Rejection	dB	54	70	-
Source/Load Characteristics	Ω	-	50/50 to 1K/1K Single-ended or Differential	-
Substrate Material	-	-	Quartz	-
Operating Temperature Range ⁽⁵⁾	°C	-30	25	75

Preliminary Specifications (Cont.)

NOTES

- (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 1000 ohms.
- (2) The typical insertion loss may vary slightly depending on actual source and load impedances, matching configuration and PC board layout. In a 1000 ohm source and 1000 ohm load, single-ended or balanced configuration, the typical insertion loss is 10.2 dB.
- (3) Passband Ripple is defined to be maximum peak to adjacent valley amplitude change within the passband excluding roll-offs.
- (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.

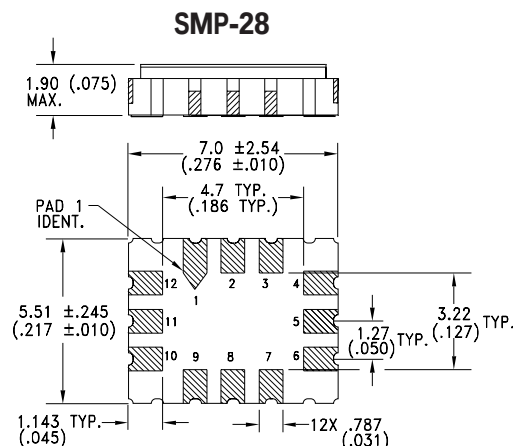
Matching Configurations



$$L1 = 270 \text{ nH}, L2 = 220 \text{ nH}$$

$$C1 = 39 \text{ pf}, C2 = 82 \text{ pf}, C3 = 47 \text{ pf}, C4 = 39 \text{ pf}$$

Package Outline



Dimensions shown are in millimeters (inches)