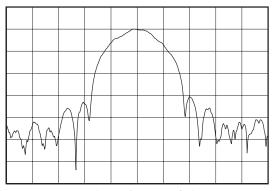


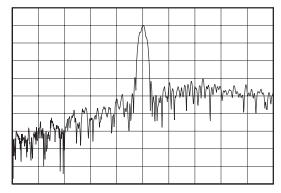


Subsrciber Transmitter Filter Part Number 855769

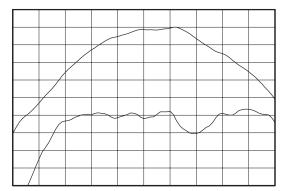
# Typical Performance



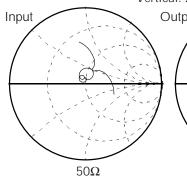
Horizontal: 3 MHz/Div Vertical: 10 dB/Div

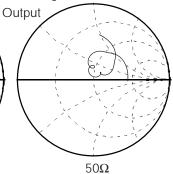


Horizontal: 20 MHz/Div Vertical: 10 dB/Div



Horizontal: 300 kHz/Div Vertical: .5 dB/Div Vertical: 2 deg/Div





Specifications				
Parameter <sup>(1)</sup>	Unit	Minimum	Typical	Maximum
Center Frequency, f <sub>o</sub>	MHz	-	130.38	-
Insertion Loss at f <sub>o</sub>	dB	-	5.0 <sup>(2)</sup>	7.5
Lower 3 dB Bandedge	MHz	-	128.96	129.765
Upper 3 dB Bandedge	MHz	130.995	132.12	-
Lower 25 dB Bandedge	MHz	124.38	125.47	-
Upper 25 dB Bandedge	MHz	-	135.53	136.38
Phase Linearity(f <sub>o</sub> ± 0.5 MHz)	deg RMS	-	0.4	2.5
Group Delay Variation	nsec	-	68	150
Passband Ripple <sup>(3)</sup>	dB	-	0.1	1
Ultimate Rejection	dB	30	50	-
Source/Load Characteristics	Ω	-	50/50 to 1K/1K	-
			Single-ended or Differential	
Substrate Material	-	-	LiNbO <sub>3</sub>	-
Operating Temperature Range <sup>(5)</sup>	°C	-30	25	75

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# 130.380 MHz CDMA

Subsrciber Transmitter Filter Part Number 855769

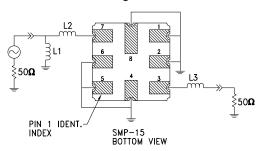
## NOTES

(Cont.)

- (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 6.0 dB.
- (3) Passband Ripple is defined to be maximum peak to adjacent valley amplitude change within the passband excluding rolloffs.
- (4) Inductors with ±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

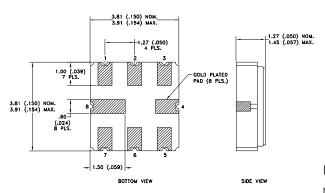
#### 50 $\Omega$ Single-ended



L1 = 180 nH , L2 = 82 nH , L3 = 56 nH

#### Package Outline

### SMP-15



Dimensions shown are in millimeters (inches)

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