

Overview

Southwest Antennas Part # 1080-079 is a triplexer designed for use with L, S, and C band radio systems that operate at 1.75 - 1.85 GHz, 2.2 - 2.29 GHz, and 4.4 - 4.9 GHz.

This triplexer allows multi-band radio systems to utilize three antennas that are optimized for their specific transmit and receive band, with a design that offers low pass band insertion loss and excellent out-of-band rejection (-45 dBi maximum). Designed for both transmit and receive applications, the triplexer allows transmissions to be routed automatically to the correct L Band, S Band, or C Band antenna. For receive applications, the triplexer combines all band signals into a single common output for installation simplicity.

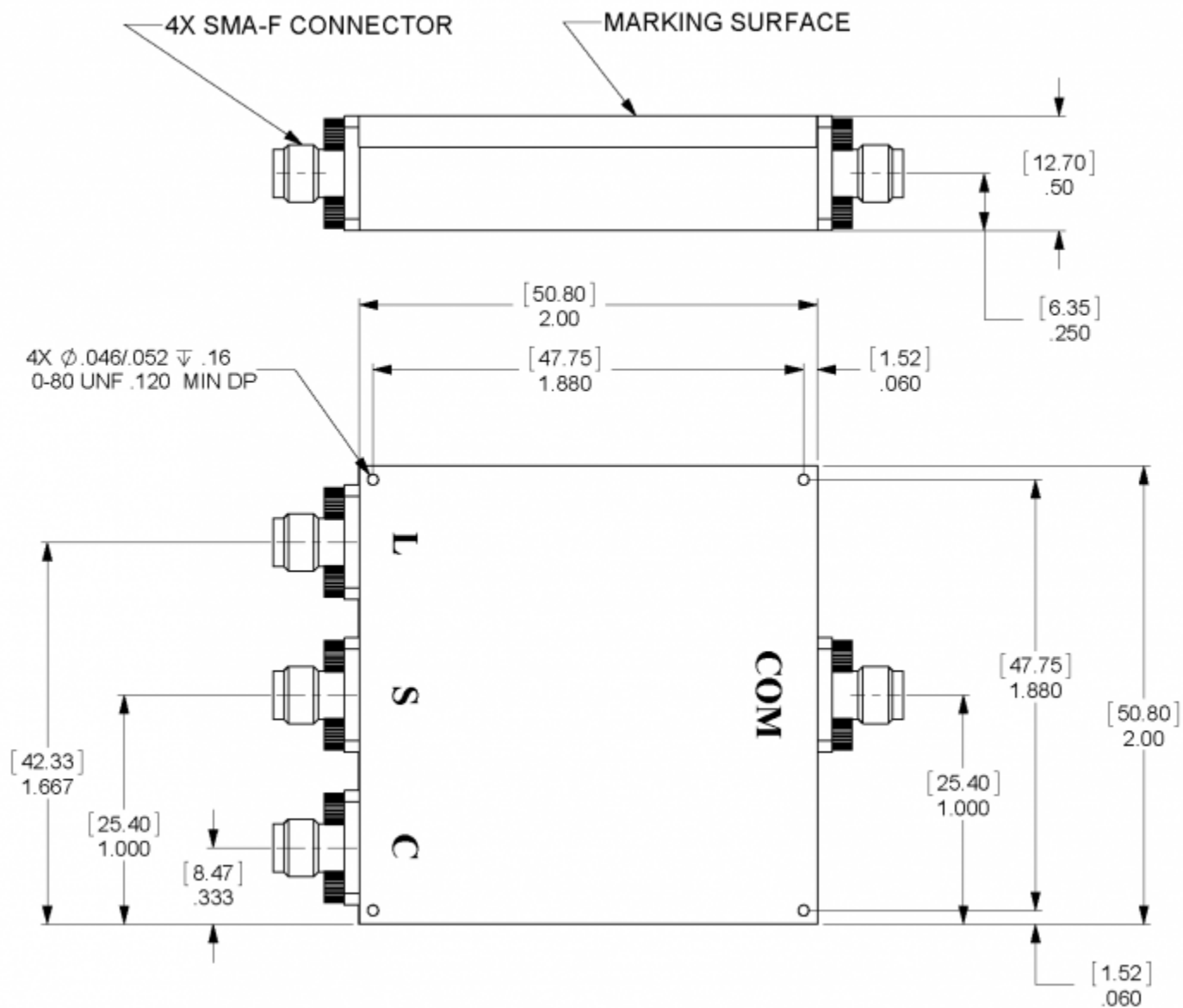
Features:

- L, S & C Multi-Band Triplexer:
 - 1.75 - 1.85 GHz
 - 2.2 - 2.29 GHz
 - 4.4 - 4.9 GHz
- Low Pass Band Insertion Loss
- 4x SMA(f) RF Connectors
- Excellent Out of Band Rejection
- Small Form Factor
- Machined Aluminum Housing with Nickel Plating
- Allows Multi-Band Radios to Send Each Band to Specific Antenna
- Combines Three Band Specific Antennas Signals Into a Single Common Output



Triplexer Specifications

Parameter	Value	Units	Tolerance
Impedance	50	Ohms	
Maximum VSWR	1.5:1	Ratio	Over all operating frequencies
CH1 Pass Band	1.75 – 1.85 1,750 – 1,850	GHz MHz	
CH1 Passband Insertion Loss	1	dBa	1,750 - 1,850 MHz
CH1 Rejection	-45	dBa	Min @ 2,200 - 4,900 MHz
CH2 Pass Band	2.2 – 2.29 2,200 – 2,290	GHz MHz	
CH2 Passband Insertion Loss	1	dBa	2,200 - 2,290 MHz
CH2 Rejection	-40	dBa	Min @ DC - 1,850 MHz
CH2 Rejection 2	-45	dBa	Min @ 4,400 - 4,900 MHz
CH3 Pass Band	4.4 – 4.9 4,400 – 4,900	GHz MHz	
CH3 Rejection	-45	dBa	Min @ DC - 2,290 MHz
Product Length	2.00 / 50.80	inches / mm	
Product Width	2.00 / 50.80	inches / mm	
Product Height	0.50 / 12.70	inches / mm	
Product Weight	2.1 / 59.8	oz / grams	
RF Connectors	4x SMA(f)		



Engineering Drawing

All dimensions in inches, metric in brackets [mm]