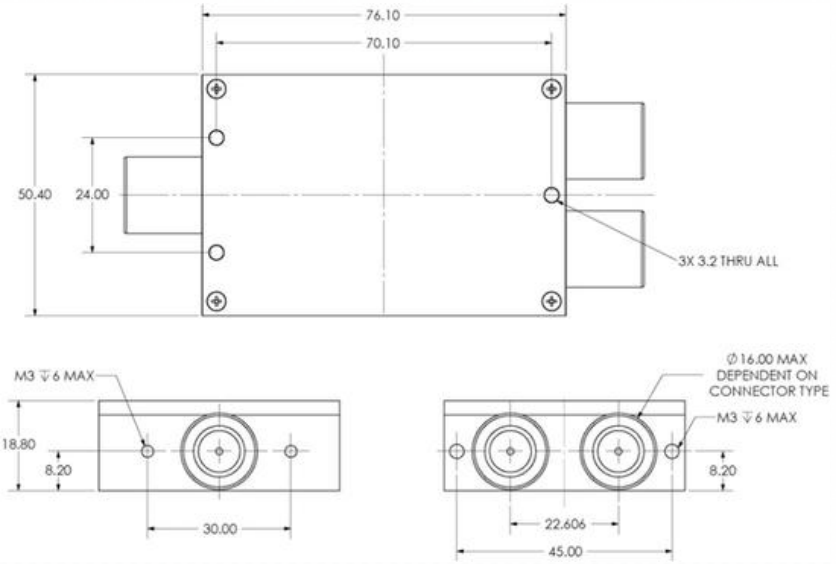
10dB L-band Coupler

850 MHz to 2450 MHz

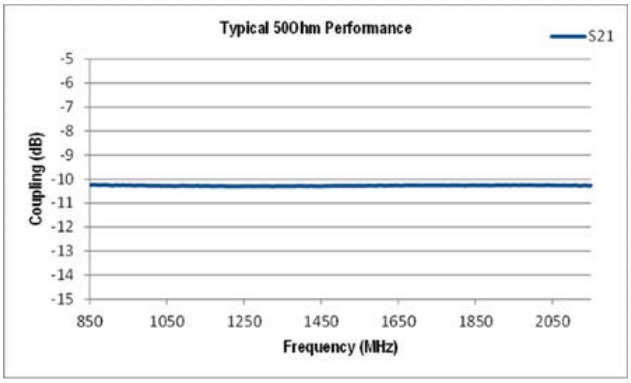
RF Parameters						
Model Variation		S5S5S5	N5N5N5	B5B5B5	B7B7B7	F7F7F7
Frequency Range		850 - 2450 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Through Path						
Mean Insertion Loss		1.8 dB ± 0.2 dB		1.8 dB ± 0.3 dB	1.9 dB ± 0.4 dB	
Flatness		±0.2 dB		±0.3 dB	±0.4 dB	
Input Return Loss	Typ.	15 dB			14 dB	
	Min.	13 dB			12 dB	
Output Return Loss	Typ.	14 dB				
	Min.	11 dB				
Coupled Port						
Coupling Factor		10 ± 0.5 typ.			10 ± 1.0 typ.	
Flatness		±0.2 dB typ.		±0.3 dB typ.	±0.4 dB typ.	
Return Loss	Typ.	14 dB typ.				
	Min.	11 dB min.				

Max. Operating Parameters	
Input RF Power	37 dBm (5 W)
DC Voltage	50V on any RF port
Environmental	
Operating Temperature	0˚C to +45˚C
Storage Temperature	-20˚C to +75˚C
Location	Indoor use only
Humidity	85% non-condensing
Altitude	10,000 feet AMSL

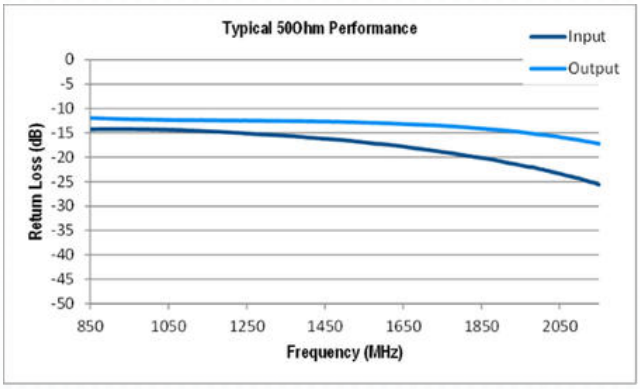
Physical Dimensions (mm)



Test Plots



Coupling (dB)



Return Loss (dB)

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.
Note 3: The given Insertion Loss specified is the loss above the theoretical limit for a lossless divider. 10MHz Insertion Loss is up to 3dB above the theoretical loss and 10MHz Rejection is 20dB to ports which are applicable.