

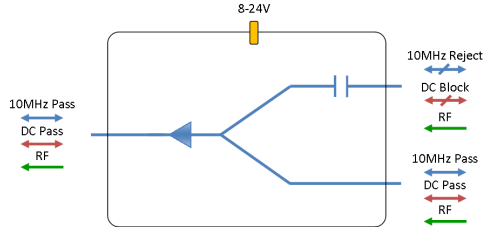


RF Components

Model Number:  
**COM02L1A-2254**

# 2-Way L-Band Active Combiner

850 - 2150 MHz



- With unity gain & flat frequency response
- DC & 10MHz pass between port 1 & common port
- Port 2 is DC & 10MHz blocked
- Requires 8-24V external DC bias

Available with RF connector options:

- 50 Ω SMA
- 50 Ω N-type
- 50 Ω BNC
- 75 Ω BNC
- 75 Ω F-type.

**8-24V**  
External DC  
powering



**Compact**  
Housed in  
rugged compact  
enclosure

**Flexible  
Mounting**  
Tapped screw &  
through hole  
mounting options

**850-2150 MHz**  
Operating frequency  
range. L-Band ready

RF Parameters						
COM02L1A-2254-XXXX	S5S5	N5N5	B5B5	B7B7	F7F7	
Frequency Range	850 - 2150 MHz					
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type	
Gain (dB)	0 ± 2	0 ± 2	0 ± 2	0 ± 2	0 ± 2	
Flatness ± (dB)	±0.4	±0.4	±0.6	±1	±1	
Input Return Loss (dB)	Typ.	16	15	14	12	10
	Min	12	12	10	10	8
Output Return Loss (dB)	Typ.	18	18	16	12	10
	Min	14	14	12	10	8
Output P1dB GCP** (dBm)	Typ.	12	12	12	12	12
	Min	9	9	9	9	9
Isolation (dB)	Typ.	18	18	18	18	18
Output IP3 (dBm)	Typ.	21	21	21	21	21
Noise Figure (dB)	Typ.	13	13	13	13	13
Amplitude Balance (dB)		≤0.2	≤0.2	≤0.2	≤0.5	≤0.5

10MHz Rejection is 20dB\*  
\*To ports which are applicable  
\*\*GCP (Gain Compression Point)

**Broadcast**



**Marine Oil & Gas**



**SNG & VSAT**



**Satellite Teleport**

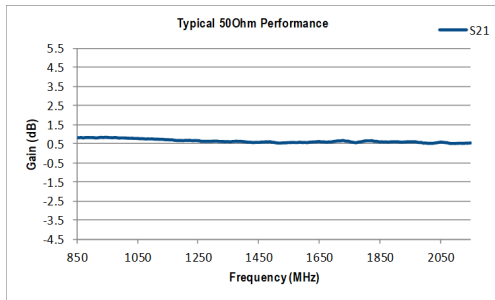




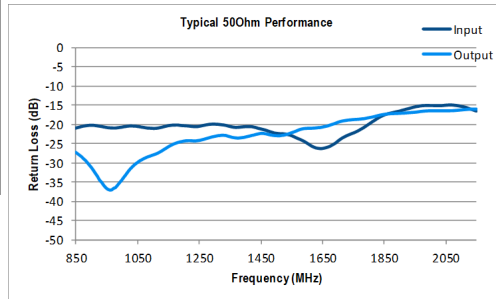
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2-Way L-Band Active Combiner

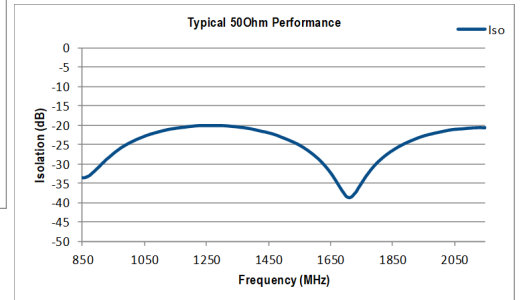
Technical specifications and operating parameters



Gain (dB)



Return Loss (dB)



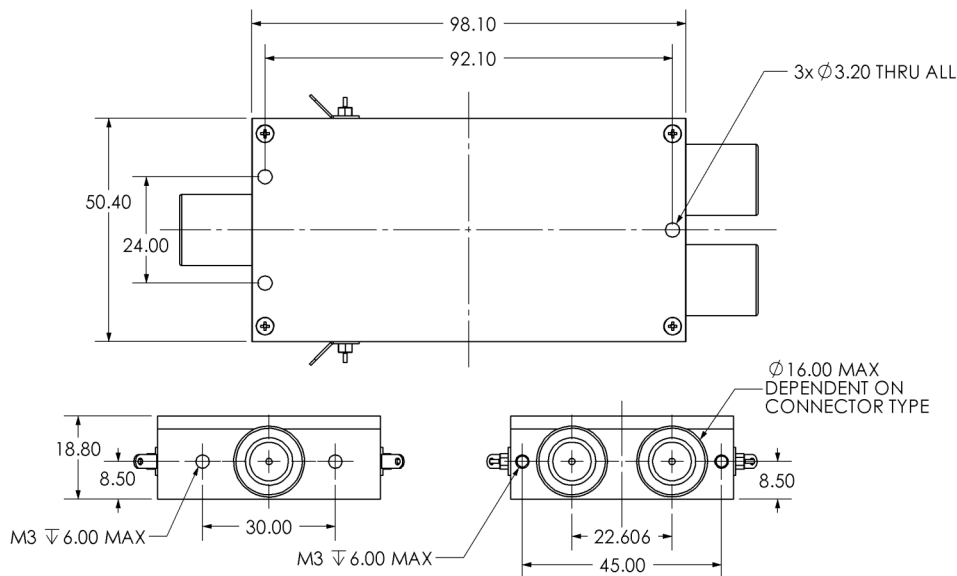
Isolation (dB)

Environmental		
Operating Temperature		0°C to +45°C
Storage Temperature		-20°C to +75°C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

Max Operating Parameters	
Input RF Power	+20 dBm
DC Voltage	24V on any RF port
DC Current	3A on any RF port

! Operation beyond these limits may cause instantaneous and permanent damage.

Physical Dimensions (mm)



Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy.

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