

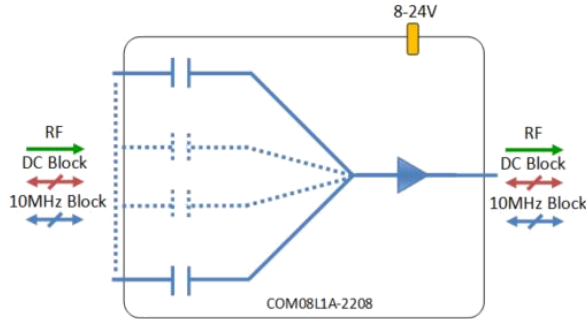


Model Number:  
**COM08L1A-2208**

RF Components

# 8-Way L-Band Active Combiner

850 - 2150 MHz



- Unity gain
- All ports DC blocked
- All ports 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

### Compact

Housed in rugged compact enclosure

### Flexible Mounting

Tapped screw & through hole mounting options

### 8-24V

External DC powering

### 850-2150 MHz

Operating frequency range.



		RF Parameters				
COM08L1A-2208-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
Mean Gain (dB)		0±1.5	0±1.5	0±1.5	0±2.0	0±2.0
Flatness ± (dB)		0.8	0.8	1.0	1.5	1.5
Input Return Loss (dB)	Typ.	18	18	18	10	10
	Min	16	16	16	8	8
Output Return Loss (dB)	Typ.	20	20	20	12	12
	Min	16	16	16	8	8
Output P1dB GCP** (dBm)	Typ.	14	14	14	13	13
	Min	11	11	11	10	10
Isolation (dB)	Typ.	23	23	23	23	23
Output IP3(dBm)	Typ.	23	23	23	23	23
Noise Figure (dB)	Typ.	20	20	20	20	20
Amplitude Balance (dB)		≤0.3	≤0.3	≤0.4	≤0.5	≤0.5
Phase Balance (Φ)		≤5°	≤5°	≤5°	≤5°	≤5°

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

### Broadcast



### Marine Oil & Gas



### SNG & VSAT



### Satellite Teleport

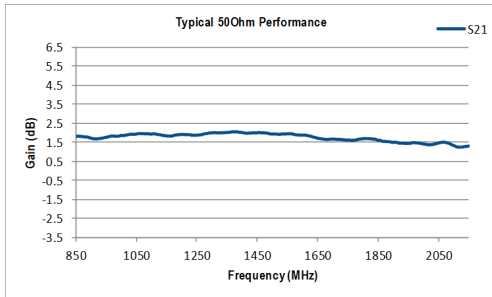




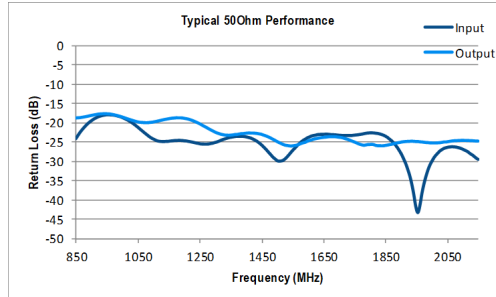
RF Components

Model Number:  
**COM08L1A-2208**  
8-Way L-Band Active Combiner

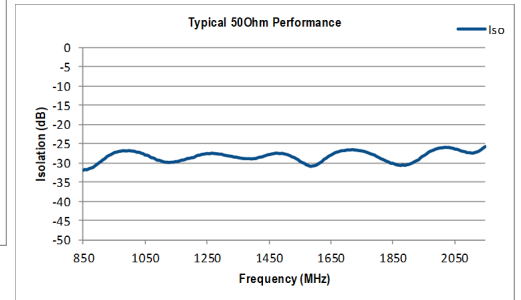
Technical specifications and operating parameters



Gain (dB)



Return Loss (dB)



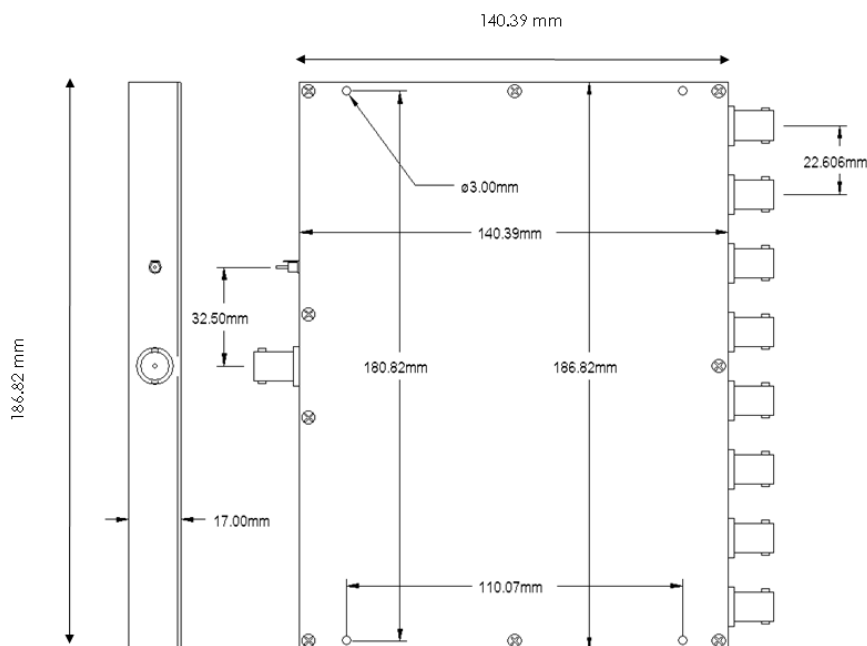
Isolation (dB)

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	+21 dBm (125mW)
DC Voltage	35V on any RF port
DC Consumption	100mA Max, 80mA typical

! 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.

ETL SYSTEMS LIMITED  
Coldwell Radio Station  
Madley  
Hereford  
England HR2 9NE

TELEPHONE  
+44 (0)1981 259020  
  
EMAIL  
info@etlsystems.com

FACSIMILE  
+44 (0)1981 259021  
  
WEB  
www.etlsystems.com

