

COM08S2A-2218

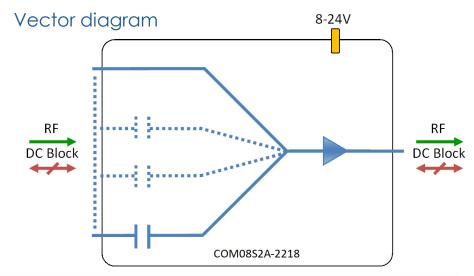
RF Engineering & Custom Build

8-way S-band active combiner



COM08S2A-2218 is an 8-way S-band Active combiner with unity gain and DC block on all ports. It requires 8-24V external DC bias via filter-con.

This component is available with the following RF connector options: 50 Ω SMA, N-type, BNC and 75 Ω BNC or F-type.



RF Parameters					
COM08\$2A-2218-xxxx	\$5\$5	N5N5			
Frequency Range	850-2500 MHz	850-2500 MHz			
RF Connectors	50Ω SMA	50Ω N-Type			
Gain	0 ±0.50 dB	0 ±0.50 dB			
Flatness	± 0.6 dB	± 0.6 dB			
Input Return Loss	22 dB typ	22 dB typ			
	14 dB min	14 dB min			
Output Return Loss	20 dB typ	20 dB typ			
	12 dB min	12 dB min			
1 dB GCP*	16 dB typ	16 dB typ			
	14 dB min	14 dB min			
IP3	26	26			
Noise Figure	15	15			

1dB Gain Compression Point (1dB GCP) is in relation to output power.

Isolation: Isolation between any 2 output ports is typically $\,$ 25dB $\,$.

Isolation: Isolation (reverse gain) between the common port and any of the output ports is typically 35dB.

BROADCAST



MARINE OIL & GAS



SNG & VSAT



SATELLITE TELEPORT



V 1.1 E&OE



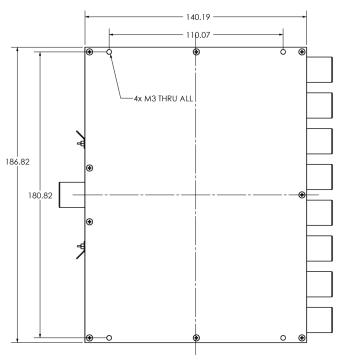
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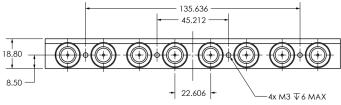
Environmental				
Operating Temperature	0°C to 45°C			
Storage Temperature	-20°C to +75°C			
Location	Indoor use Only			
Humidity	85% non-condensing			
Altitude	10,000 feet			

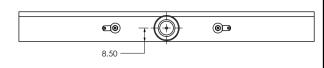
Max Operating Parameters				
Input RF Power	+24 dBm (250mW)			
DC Voltage	35V on any RF port			
DC Current	N/A			
DC Consumption	100mA Max typical 80mA			

Operation beyond these limits may cause instantaneous and permanent damage.

Physical dimensions







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Feature set for alternative 8-way Active L-band combiners

Combiners						
Model Number	Frequency (MHZ)	Gain/Frequency response	10MHz/DC functionality	Other Features		
COM08L1A-2208	850 - 2150	Unity gain	All RF ports are DC blocked			
COM08L1A-2236	850 - 2150	Unity gain	Port 1 to common port is DC pass all others are DC blocked all ports 10MHz pass			
COM08L1A-2220	850 - 2150	Unity gain	Port 1 to common port is DC pass all others are DC blocked			
COM08L1A-2229	850 - 2150	Unity gain / Flat response	All RF ports are DC pass	Integral regulator		
COM08L1A-2235	850 - 2150	Unity gain	All RF ports are 10 MHz & DC pass			
COM08L1A-2239	850 - 2150	Unity gain	All RF ports are DC blocked			
COM08L1A-2245	850 - 2150	Unity gain	Port 1 to common port is 10MHz pass all others are 10MHz blocked all ports DC blocked			
COM08L1A-2246	850 - 2150	Unity gain	Common port to one port 10MHz & DC pass All other ports are 10MHz & DC blocked			
COM08L1A-2247	850 - 2150	Unity gain / Flat response	Common port to one port 10MHz & DC pass All other ports are 10MHz & DC blocked			
COM08L1A-2251	850 - 2150		Common port to one port 10MHz & DC pass All other ports are 10MHz & DC blocked			
COM08L1A-2253	850 - 2150		Port 1 to common port is 10MHz pass all others are 10MHz blocked all ports DC blocked			
COM08B2A-2110	50 - 2150		All RF ports are 10 MHz pass & DC blocked	Integral regulator		
COM08L1A-2266	850 - 2150	Unity gain	All RF ports are 10MHz & DC blocked			
COM08L1A-2268	850 - 2150	Unity gain / Flat response	Port 1 to common port DC pass all other ports are DC blocked all ports 10MHz blocked			

* Custom designs available on request

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