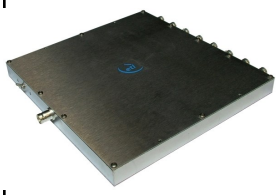
DIV08L1A-2419

RF Engineering & Custom Build

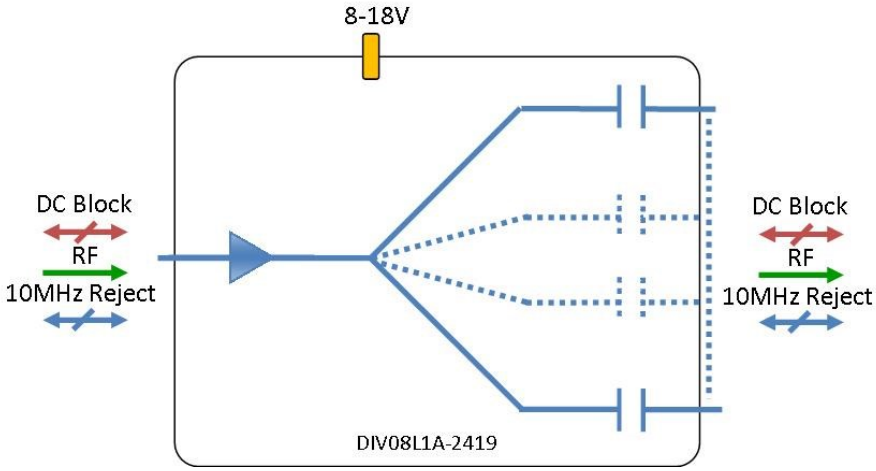
8-way L-band active splitter



DIV08L1A-2419 is an 8-way active L-band splitter with unity gain, flat frequency response. All ports are DC and 10MHz blocked. The unit requires 8-18 volts external.

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

Vector diagram



RF Parameters

DIV08L1A-2419-xxxx	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz	850-2150 MHz
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Gain	0 ±0.50 dB	0 ±0.50 dB	0 ±0.6 dB	0 ±0.75 dB	0 ±0.75 dB
Flatness	± 0.6 dB	± 0.6 dB	± 0.6 dB	± 0.7 dB	± 1.0 dB
Input Return Loss	16 dB typ	16 dB typ	14 dB typ	12 dB typ	12 dB typ
	10 dB min	10 dB min	10 dB min	8 dB min	8 dB min
Output Return Loss	16 dB typ	16 dB typ	14 dB typ	12 dB typ	12 dB typ
	12 dB min	12 dB min	11 dB min	8 dB min	8 dB min
1 dB GCP*	0 dBm typ	0 dBm typ	0 dBm typ	0 dBm typ	0 dBm typ
	-2 dBm min	-2 dBm min	-2 dBm min	-2 dBm min	-2dBm min
IP3	10	10	10	10	10
Noise Figure	6	6	6	6	6

1dB Gain Compression Point (1dB GCP) is in relation to output power.
Isolation: Isolation between any 2 output ports is typically 20 dB .
Isolation: Isolation (reverse gain) between the common port and any of the output ports is typically 35dB.
10MHz rejection typically 65 dB

Broadcast

Marine Oil & Gas

SNG & VSAT

Satellite Teleport

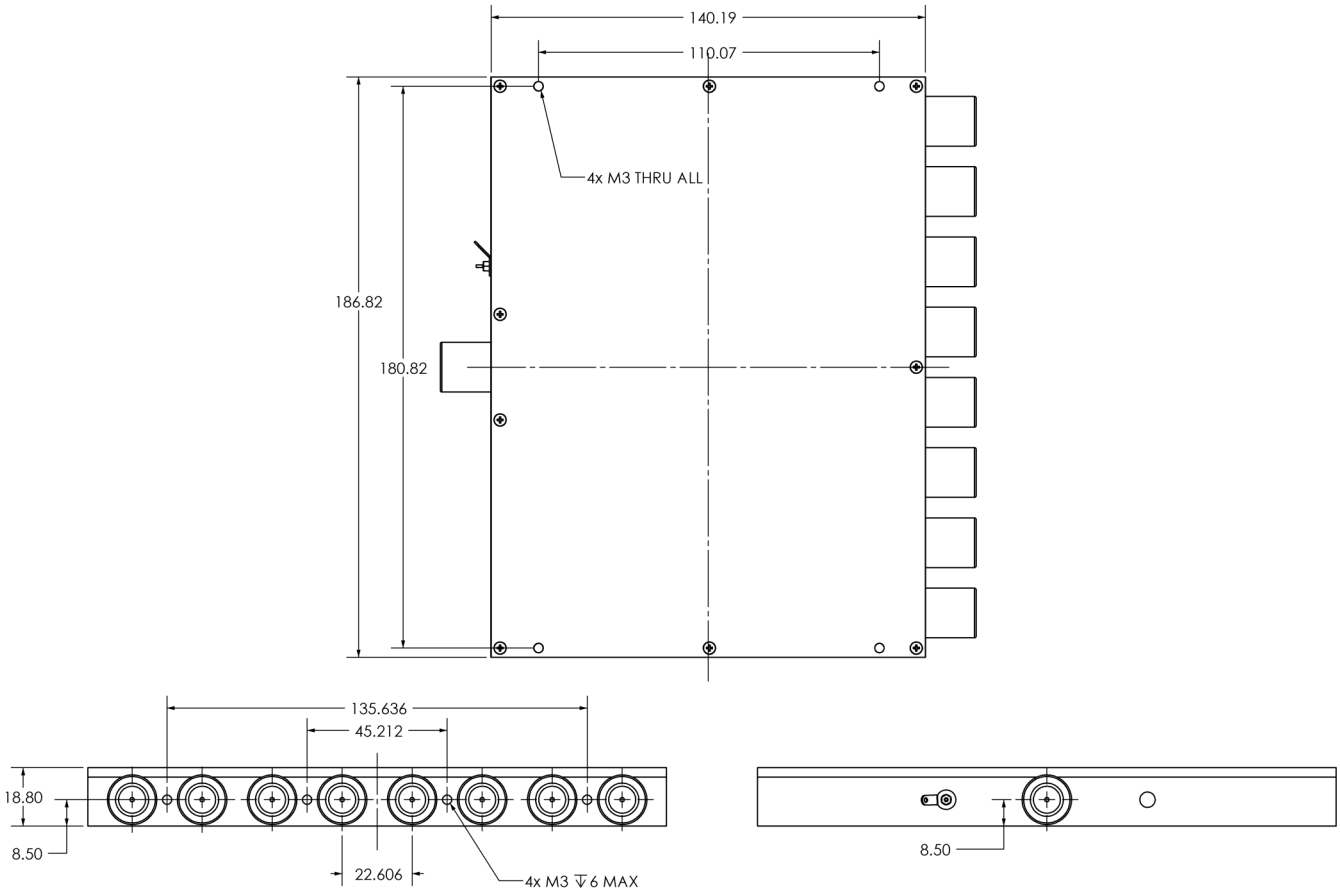
8-way L-band active splitter

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

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

Physical dimensions



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8-way L-band active splitter

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

Model Number	Frequency (MHZ)	Gain/ Frequency re-sponse	10MHz/DC functionality
DIV08L1A-2308	850 - 2150	Unity Gain	All RF ports are DC blocked
DIV08L1A-2318	850 - 2150	15dB Gain	All RF ports are DC blocked
DIV08L1A-2320	850 - 2150	Unity Gain	10MHz & DC pass from common to port 1 all others 10MHz & DC blocked
DIV08L1A-2334	850 - 2150	Unity Gain	10MHz & DC pass from common to port 1 all others 10MHz & DC blocked
DIV08L1A-2347	850 - 2150	Unity Gain / Flat response	All RF ports are DC pass
DIV08L1A-2350	850 - 2150		
DIV08L1A-2352	850 - 2150	Unity Gain	10MHz pass from common to port 1 & 2 only all others 10MHz blocked & all ports DC blocked
DIV08L1A-2357	850 - 2150	Unity Gain	All RF ports are 10MHz pass & DC blocked
DIV08L1A-2366	850 - 2150	Unity Gain	10MHz & DC pass from common to port 1 all others DC blocked
DIV08L1A-2373	850 - 2150	Unity Gain	DC injection on port 1 all other ports are DC blocked
DIV08L1A-2376	850 - 2150	Unity Gain	10MHz pass from common to port 1 only all others 10MHz blocked & all ports DC pass
DIV08L1A-2321	850 - 2150	Unity Gain	All RF ports are DC blocked
DIV08B2A-2410	50 - 2150		All RF ports are 10MHz pass & DC blocked
DIV08L1A-2392	850 - 2150	Unity Gain	All RF ports are DC blocked
DIV08L1A-2395	850 - 2150	Unity Gain / Flat response	All RF ports are DC blocked
DIV08L1A-2397	850 - 2150	Unity Gain / Flat response	All RF ports are DC blocked
DIV08L1A-2398	850 - 2150	Unity Gain	10MHz & DC pass from common to port 1 all others 10MHz & DC blocked
DIV08L1A-2419	850 - 2150	Unity Gain	All RF ports are 10MHz & DC blocked
DIV08L1A-2421	850 - 2150	Unity Gain / Flat response	DC pass from common to port 1 only all others DC blocked & all ports 10MHz blocked
DIV08L1A-2427	850 - 2150	Unity Gain	10MHz pass from common to port 1 only all others 10MHz blocked & all ports DC blocked

** Custom designs available on request*

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