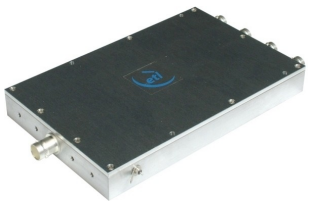
DIV04L1A-2444

RF Engineering & Custom Build

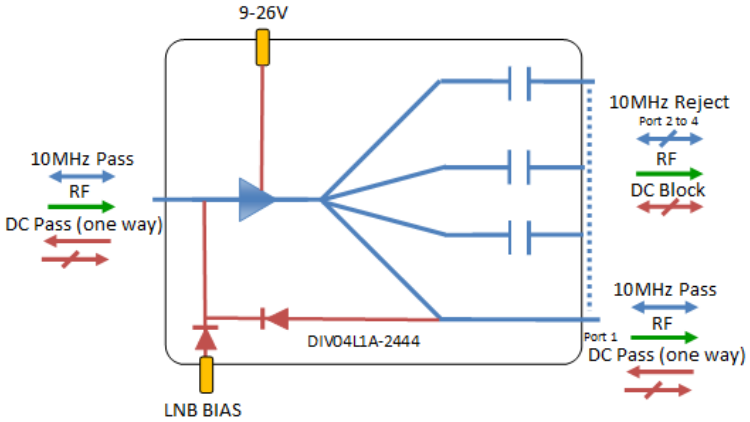
4-way L-band Active splitter



The DIV04L1A-2444 is a 4-way L-Band (850-2150MHz) Active Splitter with unity gain. There is DC & 10 MHz pass from Port 1 to the common port all other ports are DC & 10 MHz blocked. Current flow is restricted in one direction, into the common port only. There is a separate DC inject port to facilitate LNB inject.

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

DIV04L1A-2444-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 ±1.0 dB	0 ±1.0 dB	0 ±1.4 dB	0 ±2.0 dB	0 ±2.0 dB
Input Return Loss	18 dB typ	18 dB typ	16 dB typ	14 dB typ	14 dB typ
	12 dB min	12 dB min	12 dB min	8 dB min	8 dB min
Output Return Loss	18 dB typ	18 dB typ	16 dB typ	14 dB typ	14 dB typ
	12 dB min	12 dB min	12 dB min	8 dB min	8 dB min
1 dB GCP*	0 dBm typ	0 dBm typ	0 dBm typ	2 dBm typ	2 dBm typ
	-2 dBm min	-2 dBm min	-2 dBm min	5 dBm min	5dBm min
IP3	15	15	15	15	15
Noise Figure	7	7	7	7	7

**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.

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4-way L-band Active splitter

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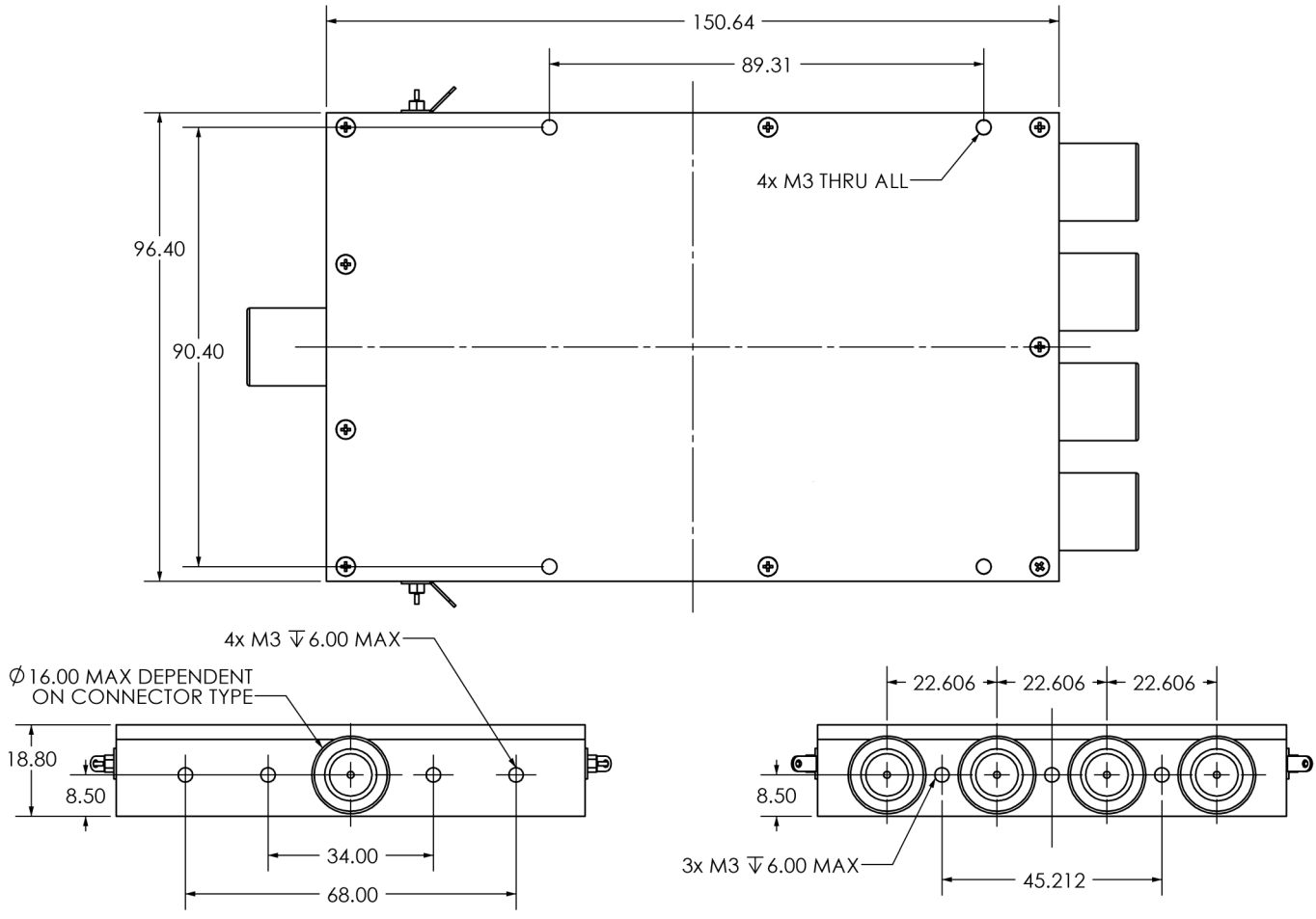
Environmental	
Operating Temperature	0˚C to 45˚C
Storage Temperature	-20˚C to +75˚C
Location	Indoor use Only
Humidity	85% non-condensing
Altitude	10,000 feet

Max Operating Parameters	
Input RF Power	+16 dBm (40mW)
DC Voltage	35V on any RF port
DC Current	1A Max total current
DC Consumption	100mA Max, 80mA typical

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

Physical dimensions



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DIV04L1A-2444

4-way L-band Active splitter

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Feature set for alternative 4-way Active L-band splitters

Model Number	Frequency (MHZ)	Gain/Frequency response	10MHz/DC functionality	Other Features
DIV04L1A-2304	850 - 2150	6dB Gain / Flat response	All RF ports are DC blocked	
DIV04L1A-2322	850 - 2150	Unity Gain / Flat response	All RF ports are DC blocked	
DIV04L1A-2325	850 - 2150	Unity Gain	All RF ports are DC blocked	DC injection
DIV04L1A-2331	850 - 2150	Unity Gain	All RF ports are DC blocked	
DIV04L1A-2341	850 - 2150	Unity Gain / Flat response	All RF ports are10MHz pass & DC blocked	
DIV04L1A-2343	850 - 2150	Unity Gain / Flat response	All RF ports are DC blocked	
DIV04L1A-2346	850 - 2150	Unity Gain / Flat response	Outer two RF ports DC blocked	Built in regulator
DIV04L1A-2351	850 - 2150	Unity Gain / Flat response	Outer two RF ports only are 10MHz pass and all ports are DC blocked	Built in regulator
DIV04L1A-2370	850 - 2150	Unity Gain	10MHz & DC pass from common to port 1 all others 10MHz & DC blocked	
DIV04L1A-2383	850 - 2150	Unity Gain / Flat response	All RF ports are 10MHz blocked & DC pass. DC is blocked between output ports	
DIV04L1A-2384	850 - 2150	Unity Gain	Common port to port 1 is DC pass all other ports are DC blocked	
DIV04L1A-2385	850 - 2150	Unity Gain	10MHz & DC pass from common to port 1 all others 10MHz & DC blocked	
DIV04B2A-2406	50 - 2150		All RF ports are10MHz pass & DC blocked	Integral regulator
DIV04L1A-2393	850 - 2150	Unity Gain	DC inject on common port, all other ports are DC blocked	
DIV04L1A-2400	850 - 2150	Unity Gain	All RF ports are10MHz pass & DC blocked	
DIV04L1A-2429	850 - 2150	Unity Gain	All RF ports are10MHz pass & DC blocked	
DIV04L1A-2430	850 - 2150	Unity Gain	DC pass & 10MHz block from common to port 1 only all others 10MHz & DC blocked	

** Custom designs available on request*

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