DIV02L1A-2390

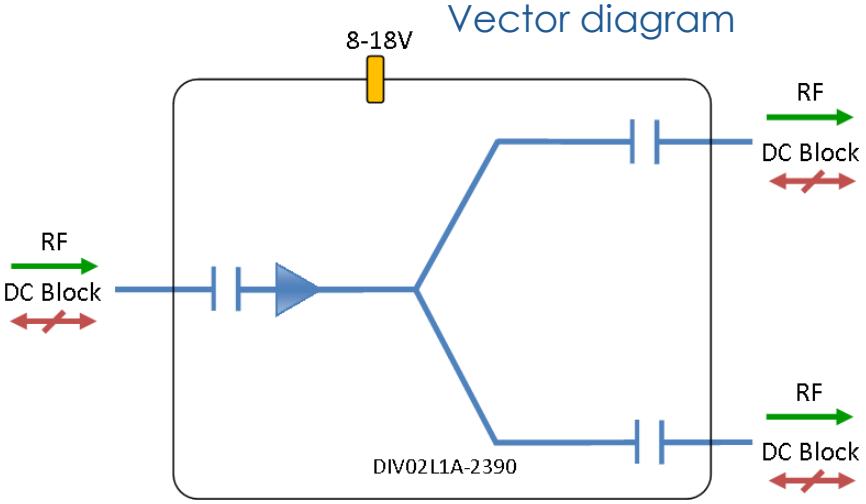
RF Engineering & Custom Build

2-way L-band active splitter

DIV02L1A-2390 2-Way L-band active splitter with 5dB gain and a flat frequency response. It requires an 8 to 18V DC supply and has an integrated regulator. All the RF ports are DC blocked

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

DIV02L1A-2390-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	5±0.5 dB	5±0.5 dB	5±0.8 dB	5±1.0 dB	5±1.0 dB
Flatness	0±0.5 dB	0±0.5 dB	0±0.5 dB	0±1.0 dB	0±1.0 dB
Input Return Loss	16 dB typ	16 dB typ	15 dB typ	10 dB typ	10 dB typ
	12 dB min	12 dB min	10 dB min	8 dB min	8 dB min
Output Return Loss	22 dB typ	22 dB typ	20 dB typ	12 dB typ	12 dB typ
	18 dB min	18 dB min	15 dB min	8 dB min	8 dB min
1 dB GCP*	9 dBm typ	9 dBm typ	9 dBm typ	9 dBm typ	9 dBm typ
	7 dBm min	7 dBm min	7 dBm min	7 dBm min	7 dBm min
IP3	18 dBm	18 dBm	18 dBm	18 dBm	18 dBm
Noise Figure	13 dB	13 dB	13 dB	13 dB	13 dB

1dB Gain Compression Point (1dB GCP) is in relation to output power.
Isolation: Isolation between any 2 output ports is typically 16dB .
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

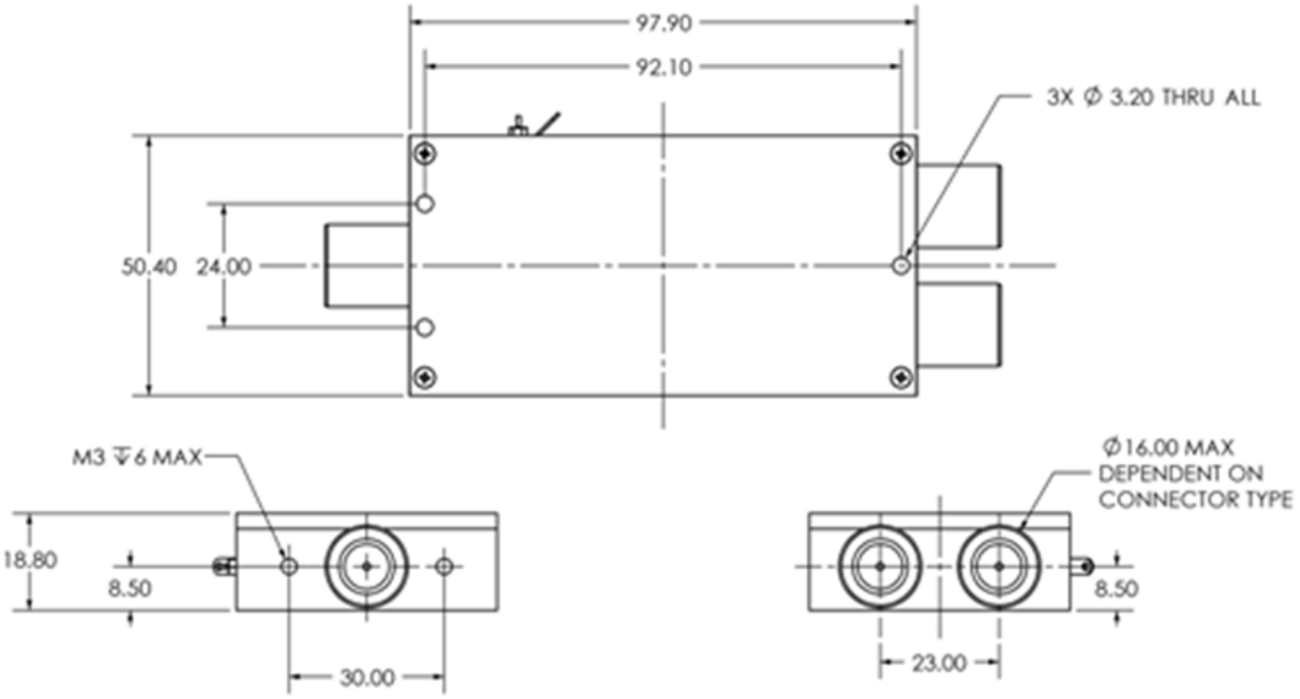
2-way L-band active splitter

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	+16 dBm (40mW)
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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Feature set for alternative 2-way Active L-band splitters

Model Number	Frequency (MHZ)	Gain/Frequency response	10MHz/DC functionality
DIV02L1A-2301	850 - 2150	5dB Gain / 3dB +ve slope	DC block on ALL ports
DIV02L1A-2302	850 - 2150	12dB Gain / Flat Response	DC block on ALL ports
DIV02B1A-2310	10 - 2150	10dB Gain / Flat Response	DC block on ALL ports
DIV02L1A-2340	850 - 2150	3dB Gain / Flat Response	DC block on ALL ports
DIV02L1A-2369	850 - 2150	6dB Gain / Flat Response	One port DC & 10MHz PASS, one port DC & 10MHz block
DIV02L1A-2372	850 - 2150	10dB Gain / Flat Response	One port DC PASS
DIV02L1A-2374	850 - 2150	4-6dB Gain / Flat Response	One port DC PASS
DIV02L1A-2387	850 - 2150	5dB Gain / Flat Response	In-line bias. One port DC PASS & 10MHz PASS.
DIV02B2A-2402	50 - 2150	Unity gain / Flat Response	10MHz pass
DIV02L1A-2417	850 - 2150	5dB gain / Flat Response	10MHz block on both ports, DC pass on one output port.
DIV02L1A-2390	850 - 2150	5dB gain / Flat Response	DC block on ALL ports
DIV02L1A-2396	850 - 2150	12dB Gain / Flat Response	10MHz & DC pass from common port to port 1, 10MHz & DC block on port 2
DIV02L1A-2420	850 - 2150	Unity gain / Flat Response	DC pass from common port to port 1 only, 10MHz block on both ports
DIV02L1A-2423	850 - 2150	5-10dB Gain / 5dB +ve slope	DC pass from common port to port 1, DC block on port 2
DIV02L1A-2425	850 - 2150	5dB Gain / 3dB +ve slope	DC block on ALL ports

** Custom designs available on request*

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