CPL20L1P-4301

20dB L-band Proximity Coupler

20dB L-band proximity coupler with DC blocks on all RF ports.

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

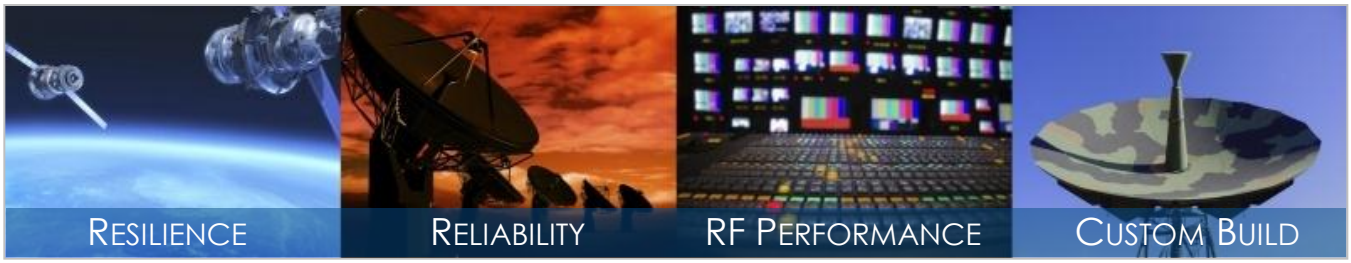
Summary table for RF performance over L-band operation, 850 MHz to 2150 MHz

Model Numbers	RF Ports	Thru Path Insertion Loss (dB)		Coupling Factor Typical (dB)	Return Loss (dB)		Directivity (dB)
		Typical	Max		Typical	Min	
CPL20L1P-4301-S5S5	50Ω SMA	1.0	1.5	20 ± 1.5	20	15	n/a
CPL20L1P-4301-N5N5	50Ω N-type	1.0	1.5	20 ± 1.5	18	14	n/a
CPL20L1P-4301-B5B5	50Ω BNC	1.0	1.5	20 ± 1.5	18	14	n/a
CPL20L1P-4301-B7B7	75Ω BNC	1.5	2.0	20 ± 1.5	14	8	n/a
CPL20L1P-4301-F7F7	75Ω F-type	1.5	2.0	20 ± 1.5	14	8	n/a

Maximum acceptable operating parameters for reliable and safe operation

Parameter	Value	*Comment*
Input RF power	+37 dBm (5W)	Max total RF power
DC Voltage	50V	Any RF port
Operating temperature	0 to 45°C	Indoor use only
Storage Temperature	-20°C to +75°C	
Humidity	85%	Non-condensing

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



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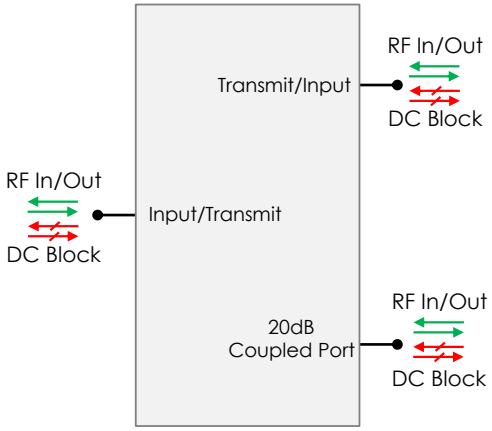
Vector diagram & physical dimensions



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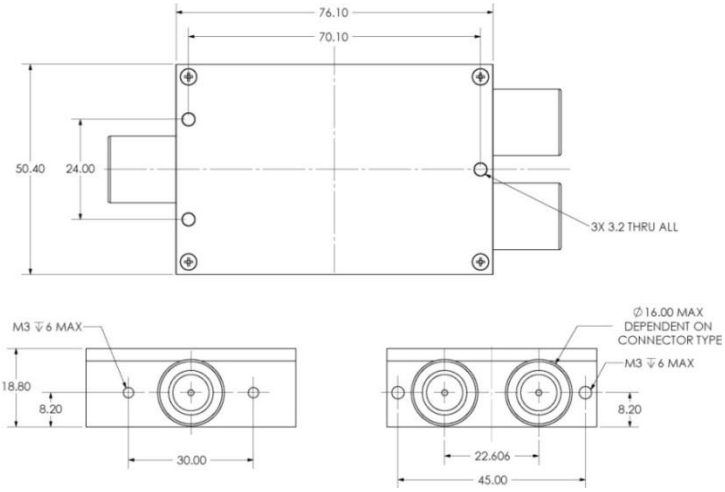

Feature set for alternative L band couplers and DC blocks

Model Number	DC Pass/Block	Other features
CPL20-L1P-4301	DC block on ALL ports	20dB proximity coupler
CPL10-L1P-4303	DC block on ALL ports	10dB proximity coupler
CPL20-L1P-4304	Thru port - DC pass Coupled port - DC blocked	20dB proximity coupler
CPL10-L1P-4305	Thru port - DC pass Coupled port - DC blocked	10dB proximity coupler
CPL20-L1P-4306	Thru port - DC pass Coupled port - DC blocked	20dB directional coupler
CPL10 L1P-4307	Thru port - DC pass Coupled port - DC blocked	10dB directional coupler
DCBLK-L1-4302	DC block with L-band and 10MHz pass	10 MHz to 2500MHz DC block
DCBLK-L1-4308	DC & 10 MHz block	

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