

2-way Passive L-band Splitter/Combiner



COM02L1P-2562 is a 2-way passive L-band splitter/combiner with 10MHz and DC pass from both output ports to the common port and DC block between outputs.

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	Conn.	Insertion Loss* (dB)		Isolation Typical (dB)	Return Loss (dB)		Phase & Amplitude misalignment	
		Typical	Max		Typical	Min	Φ	Amp(dB)
COM02L1P-2562-S5S5	50Ω SMA	0.4	0.6	23	21	12	1°	0.05
COM02L1P-2562-N5N5	50Ω N-type	0.5	0.7	20	20	12	1°	0.05
COM02L1P-2562-B5B5	50Ω BNC	0.5	0.8	20	18	12	1°	0.05
COM02L1P-2562-B7B7	75Ω BNC	0.6	0.8	20	15	10	1°	0.05
COM02L1P-2562-F7F7	75Ω F-type	0.7	1.0	17	12	8	2°	0.15

* The quoted insertion loss is loss above theoretical due to power split. For 2-way splitters theoretical value is 3dB. 10 MHz insertion loss is 3dB max above the theoretical. Typical values may vary between different production batches. DC pass is directional; from ports 1 or 2 to the common port.

Maximum acceptable operating parameters for reliable and safe operation

Parameter	Value	Comment
Input RF power	+37 dBm (5W)	Max total RF power
DC Voltage	24V / 1A	Any RF port : 3A Max if SMA or F type connector
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.



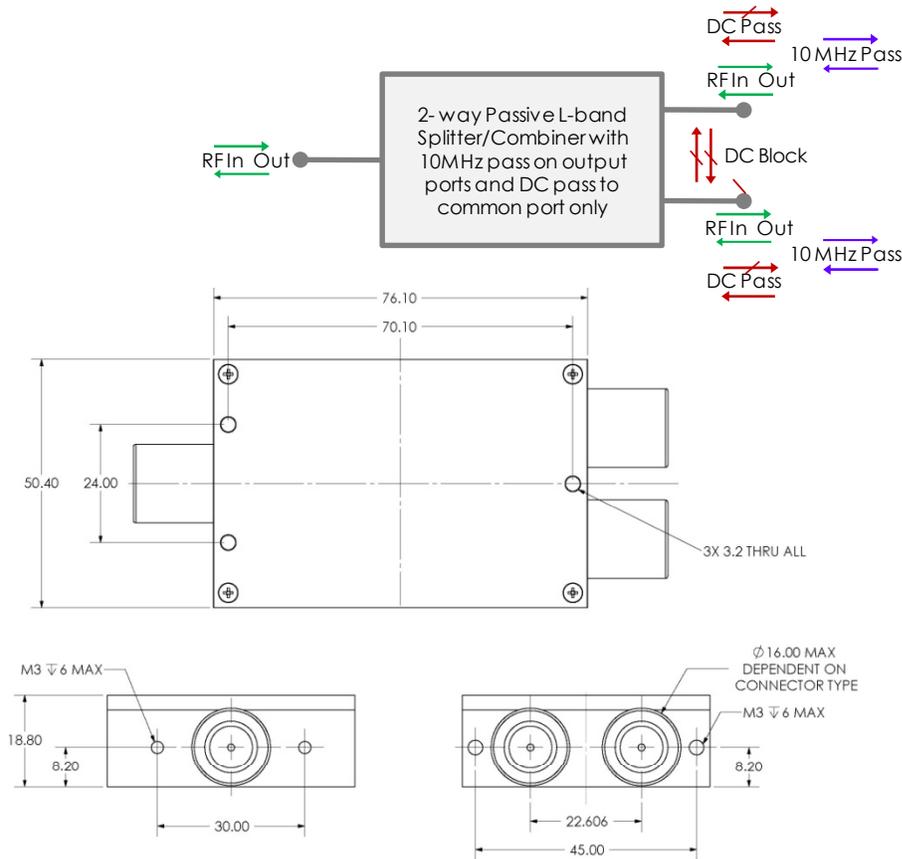
RESILIENCE

RELIABILITY

RF PERFORMANCE

CUSTOM BUILD

Vector diagram & physical dimensions



N.B: The housing and fixing holes may vary from time to time. This would be to expedite delivery by using an alternative suitable, similar housing. If this is a concern please advise with your order.

Feature set for alternative 2-way Passive L-band splitters/combiners

Model Number	DC Pass/Block	10 MHz Pass/Block	LNB/DC injection
COM02L1P-2501	DC block on ALL ports		
COM02L1P-2502	DC pass on ALL ports	10 MHz pass on ALL ports	
COM02L1P-2505	DC block on ALL ports		LNB Bias feed on common port
COM02L1P-2541	DC block on ONE port	10 MHz pass on ALL ports	
COM02L1P-2542	DC block on ALL ports	10 MHz pass on ALL ports	LNB Bias feed on common port
COM02L1P-2543	DC block on ONE port	10 MHz pass on ONE port	
COM02L1P-2574	DC block on ALL ports	10 MHz rejection	
COM02L1P-2576	DC block on ALL ports		LNB injection on common port by DC injection via filter-con



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