

## 2-way Passive S-band Splitter/Combiner



COM02S1P-2599 is a 2-way passive S-band splitter/combiner with DC block on one of the ports and DC pass on the other.

This component is available with the following RF connector options: 50  $\Omega$  SMA, N-type and BNC.

Summary table for RF performance over S-band operation, 500 MHz to 2750 MHz

Model Numbers	Conn.	Insertion Loss* (dB)		Isolation Typical (dB)	Return Loss (dB)		Phase & Amplitude misalignment	
		Typical	Max		Typical	Min	$\Phi$	Amp(dB)
COM02S1P-2599-S5S5	50 $\Omega$ SMA	0.7	1.0	20	18	12	5	0.3
COM02S1P-2599-N5N5	50 $\Omega$ N-type	0.7	1.1	20	16	12	5	0.3
COM02S1P-2599-B5B5	50 $\Omega$ BNC	0.8	1.2	20	14	10	5	0.4

\* 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.

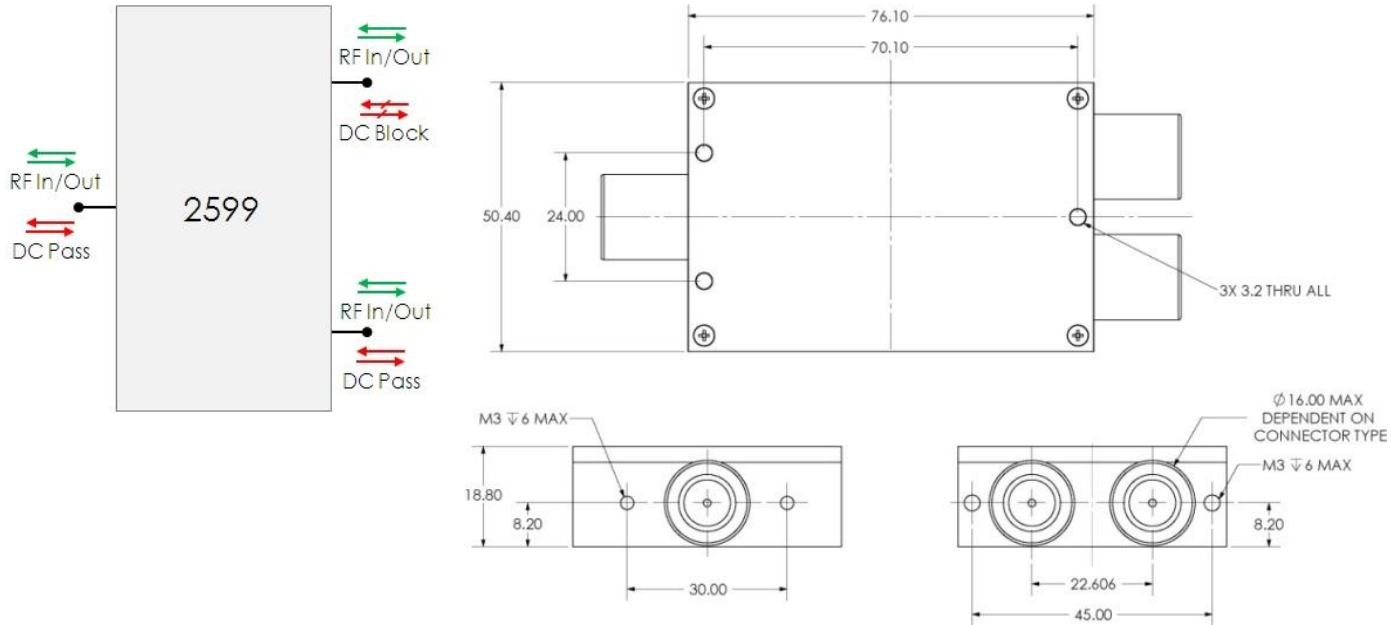
Maximum acceptable operating parameters for reliable and safe operation

Parameter	Value	Comment
Input RF power	+37 dBm (5W)	Max total RF power
DC Voltage	50V / 3A	
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.



### Vector diagram & physical dimensions



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

Model Number	DC Pass/Block	10 MHz Pass/Block	LNB/DC injection
COM02L1P-2501	DC block on ALL ports		
COM02L1P-2505	DC block on ALL ports		LNB Bias feed on common port
COM02S1P-2506	DC pass	10 MHz pass	500 TO 2750 MHz
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-2562	DC pass from ALL outputs to common, DC block between outputs		
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
COM02S1P-2599	DC block on ONE port, DC pass on the other		500 to 2750MHz