

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



COM02S1P-2507 is a 2-way passive S-band (500 to 2750MHz) splitter/combiner with 10MHz and DC pass on all ports.

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

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

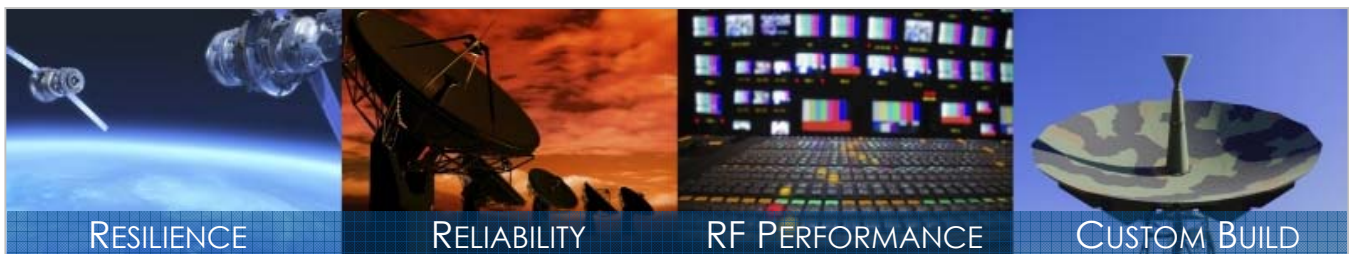
Model Numbers	Conn.	Insertion Loss* (dB)		Isolation Typical (dB)	Return Loss (dB)		Phase & Amplitude misalignment	
		Typical	Max		Typical	Min	$\Phi$	Amp(dB)
COM02S1P-2507-S5S5	50 $\Omega$ SMA	0.5	0.9	23	21	16	1°	0.05
COM02S1P-2507-N5N5	50 $\Omega$ N-type	0.6	0.9	20	20	15	1°	0.05
COM02S1P-2507-B5B5	50 $\Omega$ BNC	0.8	1.2	20	18	15	1°	0.05

\* 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 / 5A	Any RF port <b>3A Max</b> 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

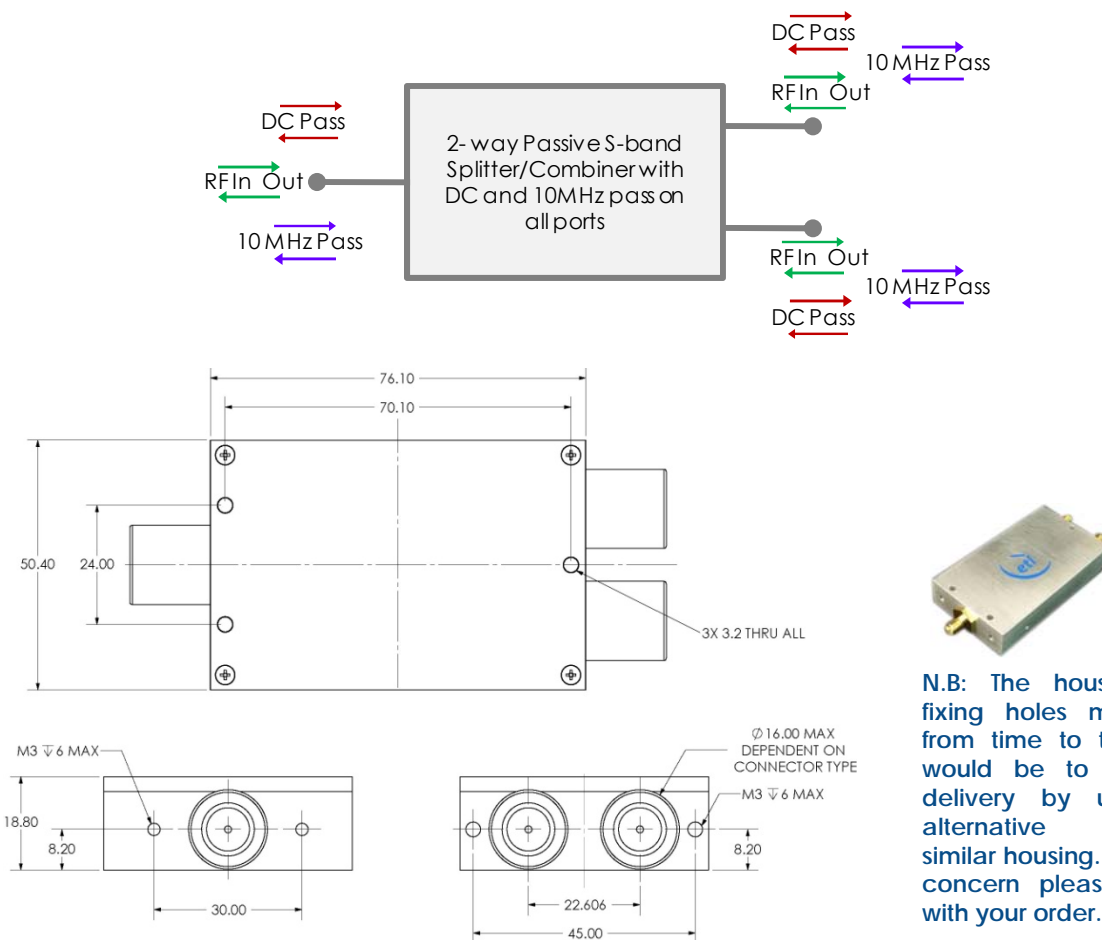
CUSTOM BUILD

# COM02S1P-2507

2-way Passive S-band Splitter/Combiner



## 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.

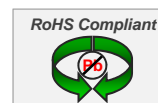
## Feature set for alternative 2-way Passive S-band splitters/combiners

Model Number	DC Pass/Block	10 MHz Pass/Block
COM02S1P-2507	DC block on ALL ports	Not measured.



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