

4-way Passive C-band Splitter/Combiner



COM04C3P-2552 is a 4-way passive C-band (3.4 to 6.5GHz) splitter/combiner with DC pass on all ports.

This component is available with the following RF connector options: 50 Ω SMA & 50 Ω N-type.

Summary table for RF performance over C-band operation, 3.4GHz to 6.5GHz

Model Numbers	Conn.	Insertion Loss* (dB)		Isolation Typical (dB)	Return Loss (dB)		Phase & Amplitude Misalignment	
		Typ.	Max		Typ.	Min	Φ	Amp(dB)
COM04C3P-2552-S5S5	50 Ω SMA	1.6	2.2	23	15	10	4°	0.2
COM04C3P-2552-N5N5	50 Ω N-type	2.0	2.8	20	12	8	4°	0.2

* The quoted insertion loss is loss above theoretical due to power split. For 4-way splitters theoretical value is 6dB.

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 / 500mA	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.

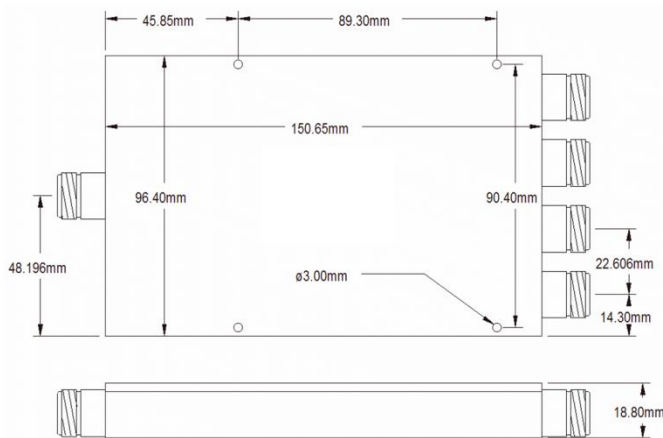


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Vector diagram & physical dimensions



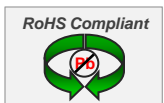
Feature set of 4-way Passive C-band splitters/combiners

Model Number	Frequency	DC Pass/Block
COM04C4P-2553	2.0-4.2 GHz	DC pass on ALL ports
COM04C4P-2585	2.0-4.2 GHz	DC pass on ONE output, DC block on all other outputs
COM04C4P-2589	2.0-4.2 GHz	DC block on ALL ports
COM04C1P-2550	3.4-4.2 GHz	DC pass on ALL ports
COM04C1P-2586	3.4-4.2 GHz	DC block on ALL ports
COM04C3P-2552	3.4-6.5 GHz	DC pass on ALL ports
COM04C3P-2588	3.4-6.5 GHz	DC block on ALL ports
COM04C2P-2551	5.8-6.5 GHz	DC pass on ALL ports
COM04C2P-2587	5.8-6.5 GHz	DC block on ALL ports



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