3 x 3 Hybrid Coupler, CM-91 series

Three Way, Low Loss, 4.8 dB Hybrid Combiner
350 - 960 MHz, N or 7-16 mm connectors
Rev. B

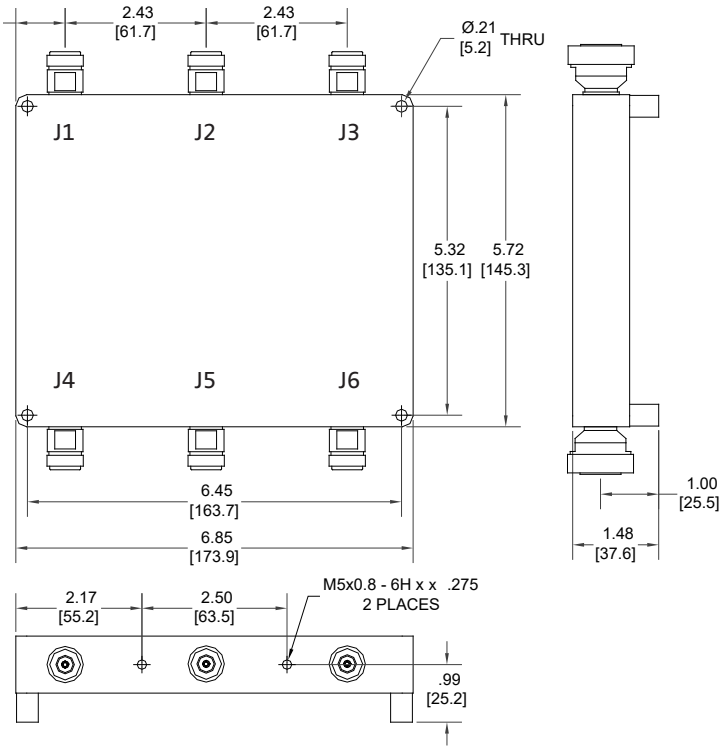
- Connects 3 inputs to 3 outputs with minimal interaction & PIM
- Just 4.8 dB coupled loss/channel
- Up to 25 dB Isolation, Low VSWR
- Low and High Wireless Bands
- 100W/input average Power Rating
- Convenient connector spacing
- RoHS compliant



Model Number	Connector (female)	Frequency Range, MHz	Isolation dB	Input VSWR	*Coupling & Variation	Weight, nom. lbs. (kg)
CM-91D	7-16 mm	350 - 960	>25 dB	<1.20:1	5.0 ± 1.0 dB	3.4 (1.6)
CM-91N	N conn					3.0 (1.4)

Add a P to the Model Number for IP67

*Coupling includes dissipative loss



A 3x3 Hybrid Combiner is a network of three hybrid couplers, which combines up to three inputs. In DAS applications, all three outputs may be used to feed different cables, essentially providing lossless combining. Any unused ports must be terminated in 50Ω at the appropriate power rating.

This network is an important building block in combining boxes used in neutral host in-building distributed antenna systems.

RF Coupling, all paths:	4.8 dB nominal	
DC - 20 MHz paths:	J1 - J6	
	J2 - J5	
	J3 - J4	
	all others isolated	
Impedance:	50Ω nominal	
Power Rating/input:	100W avg., 3kW pk.	
Environment:	-35° to +65°C, IP64	
	(IP67 option, add P to Model Number)	
PIM (Intermodulation):	<-150 dBc (with	
(using low PIM loads)	+43 dBm x2 tones)	
Finish: Housing:	Passivated Aluminum	
Connectors:	Triplate	

Note: Specifications are subject to change without prior notification.

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