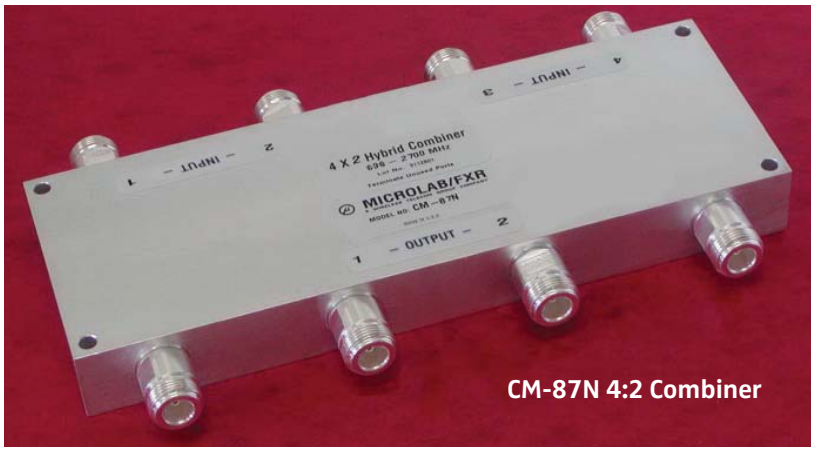
Isolated Combiner, CM-87N series

4:2 Matrix, Low Loss, 6 dB Hybrid Combiner
698 - 2,700 MHz, N connectors
Rev. 1

Product Line Discontinued, but may be available to special order

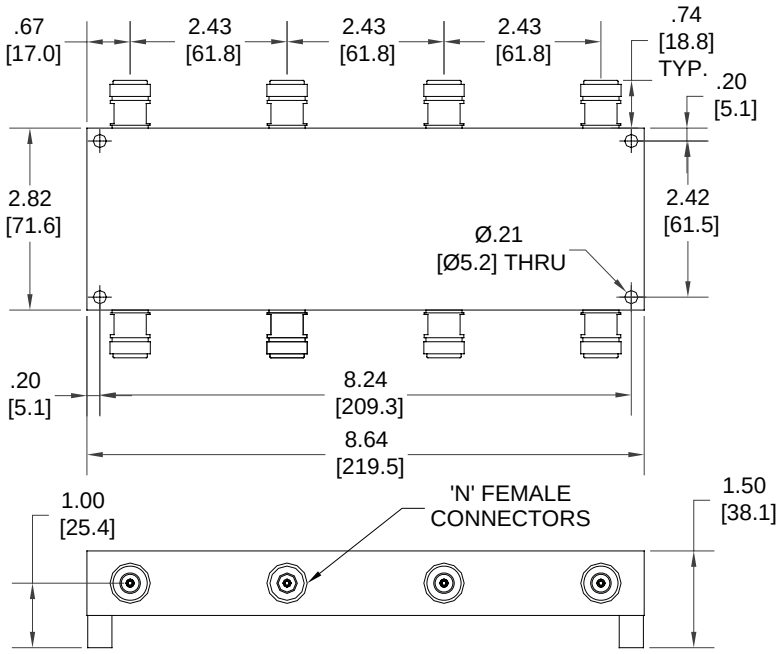
Preliminary Specification

- Connects 4 in to 2 out with minimal interaction
- Just 6 dB loss/channel
- >23 dB Isolation
- Low VSWR
- Low and High Bands
- 80W/input avg Power
- RoHS Compliant
- Convenient size



CM-87N 4:2 Combiner

Model No.	Configuration	Frequency Range, MHz	Coupling/Loss (Any Path)	Input Isolation	Input VSWR	Power per Input	Weight lbs (kg) nom
CM-87N	4:2 (2 ports need terminating)	806 - 2,500 698 - 2,700	6.2 ± 0.8 dB 6.2 ± 1.2 dB	>23 dB	<1.2:1	80W avg., 3 kW	3.2 (1.5)
CM-87GN	4:1 (internal 3W terms)	806 - 2,500 698 - 2,700	6.2 ± 0.8 dB 6.2 ± 1.2 dB	>23 dB	<1.25:1	3W avg., 3 kW	3.2 (1.5)



This broadband 4:2 Hybrid Combiner is a network of three couplers in a convenient package with high isolation in the wireless bands and low passive intermodulation (PIM). Four inputs feed two 3 dB hybrids whose outputs are fed to a third 3 dB hybrid coupler.

This network provides simple combining of 4 independent signals in the same wireless band to a common feeder cable, as might be required in a radio base station or in a neutral host in-building distributed antenna system. The unused hybrid ports must be terminated at the appropriate power rating. (01/13)

Impedance:	50Ω nominal
Temperature:	-35° -+65°C
Environment:	IP64 (IP67 to order)
PIM*:	<-130 dBc (with +43 dBm x2)
Finish:	
Housing:	RoHS coated Al
Connectors:	N(f) Triplate

*with low PIM loads

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