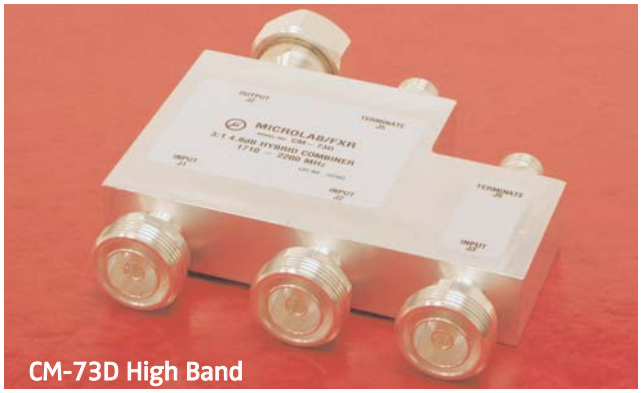
Isolated Combiner, CM-x3 series

3:1 Matrix, Low Loss, 4.8 dB Hybrid Combiner
698 - 2,700 MHz, N or 7-16 connectors

- Connects 3 inputs to 1 output with minimal interaction
- Just 4.8 dB loss per channel
- Up to 25 dB Isolation, Low VSWR
- Low and High Wireless Bands
- 100W/input avg Power Rating
- Convenient connector spacing
- RoHS Compliant


CM-73D High Band

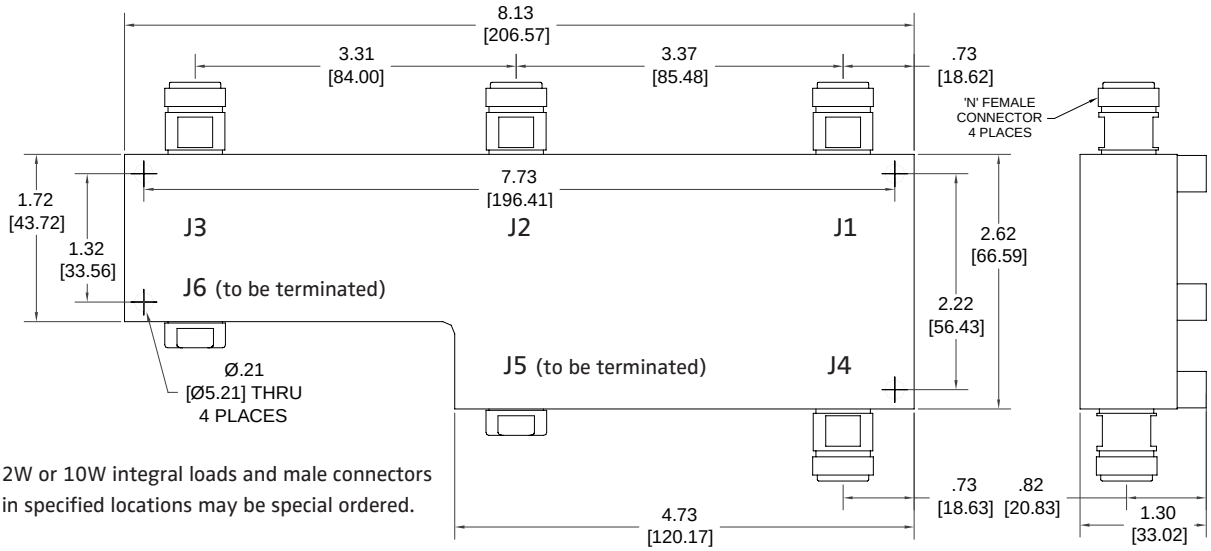
Model No/Connector N (f)	7-16 mm (f)	Frequency Range, MHz	Coupling Variation	Isolation dB	Input VSWR	Max Power per input	Weight, nom. lbs. (kg) N conn.	7-16 mm
CM-73N	CM-73D	1,710 - 2,000 2,000 - 2,200 2,200 - 2,700	±0.25 dB ±0.25 dB ±0.75 dB	>25 dB >23 dB >20 dB	<1.20:1 <1.25:1 <1.30:1	100W avg.	1.7 (0.8)	1.95 (0.9)
CM-83N	CM-83D	698 - 2,500 2,500 - 2,700	±0.75 dB	>23 dB	<1.20:1 <1.30:1	60W avg.	1.95 (0.9)	2.15 (0.95)

A 3:1 Hybrid Combiner is a network of two hybrid couplers. Two inputs feed a 3dB hybrid whose output is fed to the 1.8 dB coupling arm of a 4.8 dB hybrid coupler, whose main line is the third input. The 2 unused N connector ports must be terminated in 50Ω at the appropriate power rating.

This network combines 3 independent signals in the same wireless band with minimum loss, to a common feeder cable, as might be required in a radio base station or in a neutral host in-building distributed antenna system. (08/10)

Coupling, any path:	4.8 dB nominal
DC Path:	J3 to J4 only 1A max.
Impedance:	50Ω nominal
Peak Power Rating:	3 kW
Environment:	-35° to +65°C, IP64 (IP67 to order)
PIM (Intermodulation): (using low PIM loads)	<-150 dBc (with +43 dBm x2 tones)
Connectors Finish:	Silver or triplate

CM-83N Outline with optional built in 2W loads



2W or 10W integral loads and male connectors in specified locations may be special ordered.

Microlab, A Wireless Telecom Group Company, 25 Eastmans Road, Parsippany, NJ 07054
Tel: (973) 386-9696 • sales@microlab.fxr.com • www.microlab.fxr.com • Fax: (973) 386-9191

Outline for CM-73D