Low PIM Combiner, CT series

160W Total Power Input, Low PIM, Hybrid Combiner
Versions for Wireless Bands 698 - 2700 MHz

- Low PIM Performance using Cable Load
- Weathersealed Design, IP67
- High Reliability
- N or 7-16 mm connectors
- High Isolation, Low VSWR and Loss
- 160 W Total Average Power Rating
- RoHS compliant

The models in the CTseries are assemblies of a broadband, high isolation Hybrid Coupler and a low PIM cable load using a single weatherproofed housing.

The Combiner combines two wireless carriers in the band to a single antenna feed or distribution cable with minimum inter-modulation. The cable load terminates one hybrid output port in 50Ω and results in a 3 dB loss in each signal.

Other bands, connectors, guaranteed PIM and powers to special order. (02/12-1)

Coupling Loss:	3 dB nominal
PIM Intermod:	<-160 dBc (all units* tested at 1850 MHz with 2 +43dBm tones)
Impedance:	50Ω nominal
Environment:	-35°C to +75°C, IP67
Housing:	Passivated aluminum
Connector Finish:	Triplate
Weight, nominal:	6.6 lbs; 3.0 kg

*CT-64 models PIM tested at 800 MHz for <-160 dBc

Model No.	Connectors	Frequency Range, MHz	Input Isolation, dB typ.	Input Isolation, dB min.	Sensitivity dB	VSWR Max	Dissipative Loss	Total Max. *Avg.	Power Peak
CT-64D	7-16 (f)	698 - 960	30	28	±0.40	1.2:1	<0.2 dB	160W	3.0 kW
CT-64N	N type (f)		32	30					
CT-74D	7-16 (f)	1710 - 2170	30	25	±0.25	1.2:1	<0.2 dB	160W	3.0 kW
CT-74N	N type (f)								
CT-84D	7-16 (f)	698 - 2170	30	25	±0.40	1.2:1	<0.2 dB	160W	3.0 kW
		2400 - 2700	25	21					
CT-84N	N type (f)	698 - 2170	30	25	±0.40	1.2:1	<0.2 dB	160W	3.0 kW
		2400 - 2700	27	23					

*Derate -1.2%/°C.above 55°C

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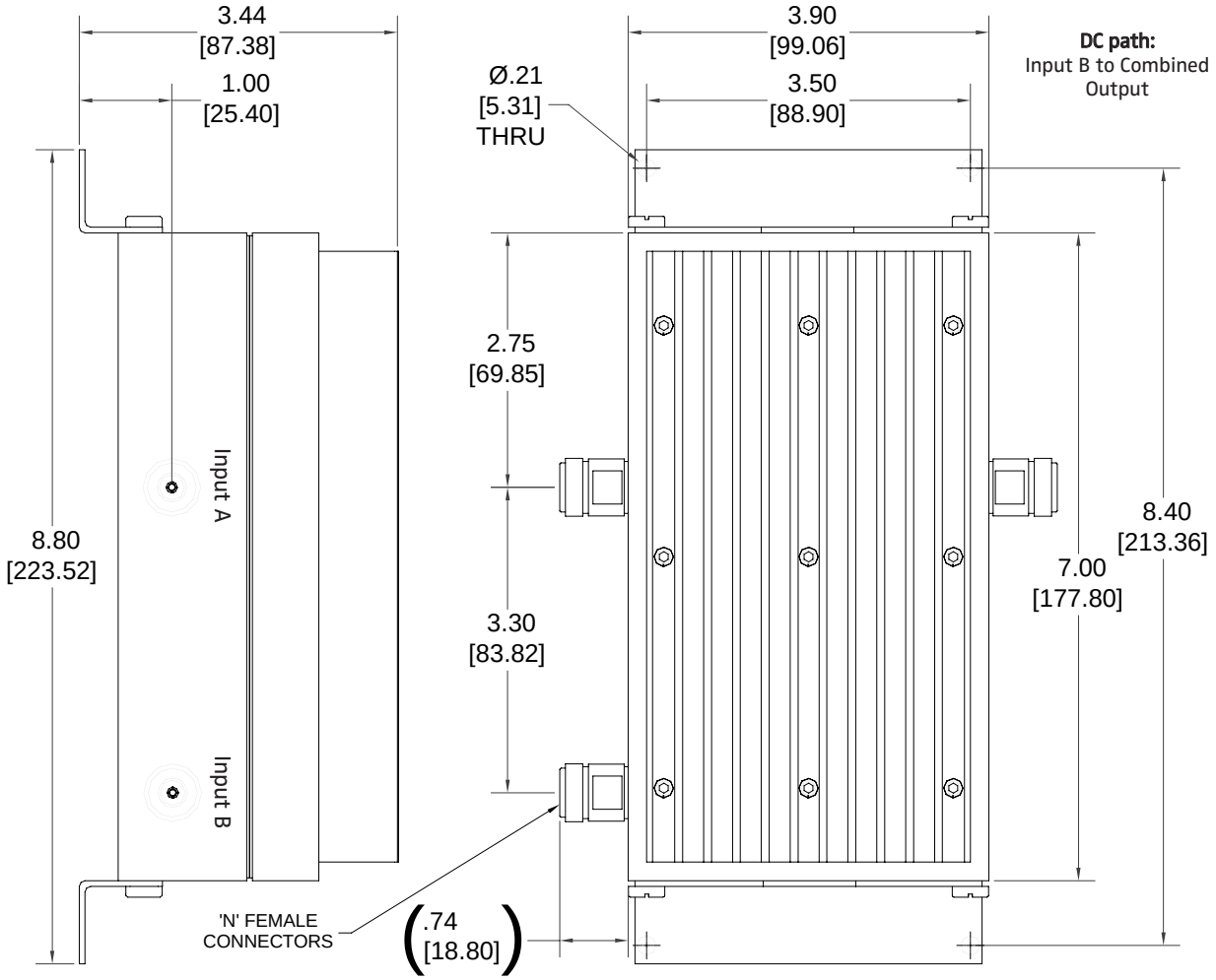
MICROLAB/FXR
MODEL NO CT-84N
LOW PIM HYBRID COMBINER
698 — 2700 MHz
COMBINED OUTPUT


3.44
[87.38]
1.00
[25.40]
8.80
[223.52]
Input A
Input B
'N' FEMALE
CONNECTORS
.74
[18.80]
Ø.21
[5.31]
THRU
3.90
[99.06]
3.50
[88.90]
2.75
[69.85]
3.30
[83.82]
DC path:
Input B to Combined
Output
8.40
[213.36]
7.00
[177.80]