

CMX-101

2-WAY 100W RF Power Combiner

Outdoor application (weather proof)

Frequency: 700~2200MHz –

Composite UMTS/LTE

ELECTRICAL SPECS

Frequency:	0.700-2.200 GHz
Total Input Power:	100 Watts Max. Note 1
Isolation:	22 dB Typ. , 15 dB Min.
Insertion Loss:	0.40 dB Typ. , 0.60 dB Max.
Amplitude Balance:	0.3 dB (Max)
Phase Balance:	3 degrees (Max)
VSWR Input:	1.30:1 Typ. , 1.40:1
VSWR Output:	1.15:1 Typ. , 1.25:1

MECHANICAL SPECS

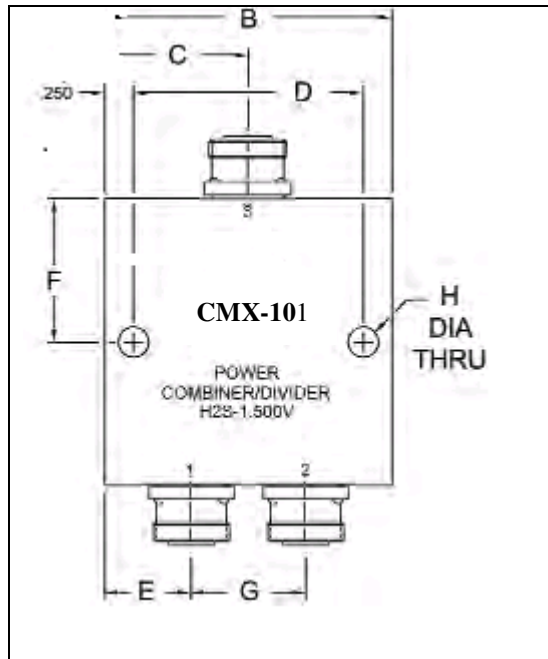
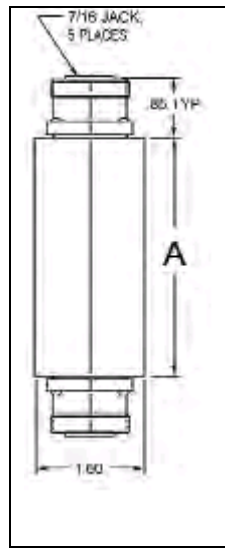
Connectors:	7/16 DIN
Contact Pin:	Beryllium Copper Gold Plate
Housing:	Aluminum
Insulator:	PTFE Virgin Electrical Grade
Operating Temp.:	-55° C to +85° C

Note 1 A heatsink is required when combiner case temperature exceeds the recommended 85 deg °C rating due to high input power levels and/or elevated ambient temperatures.

For Tamb-max=85°C, The heatsink needs a thermal resistance of 0.3 °C/W.

The required heatsink thermal resistance is calculated as: $R_{th} < 2 * [(150^{\circ}C - T_{amb-max}) / P_{in-max}] - 1$

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Dimensions in Inches

A	B	C	D	E	F	G	H
3.5	3.0	1.5	2.6	0.75	1.75	1.5	0.265