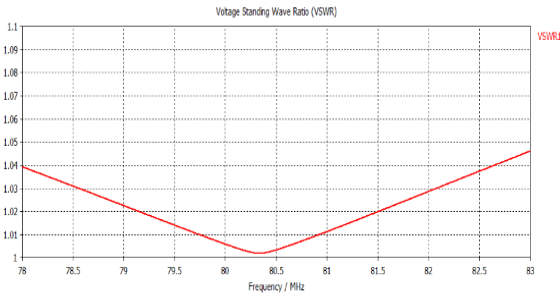


# 8.8 kW 4-Way Power Combiner



- T-style
- high power handling
- compact design
- low VSWR
- for indoor application



Typical diagram



Part number	<b>BN 81 82 13 C0001</b>
Application	Power combiner for balanced feeding of all inputs (equal amplitudes and phases)
Frequency range	80.5 MHz
Connectors	Input 4 x 7/8" EIA male (with built in coupling element) Output 1 x 3 1/8" EIA male (with built in coupling element)
Average input power rating, max. <sup>1)</sup>	4 x 2.2 kW
Average output power rating, max.	8.8 kW
Sum of all peak voltages at all inputs <sup>2)</sup>	4.3 kV, limited by 7/8" connectors
Insertion loss (without coupling loss)	≤ 0.1 dB
Return loss <sup>3)</sup>	≥ 29 dB (VSWR ≤ 1.07)
Power ratio	6 dB +/- 0.1 dB
Phase balance	0° +/- 3°
Dimensions (L x W x H) mm	ca. 539 x 187 x 187
Weight	ca. 4.6 kg
Ambient temperature	-10 °C ≤ θ ≤ +55 °C
Relative humidity, max.	95% (non-condensing)
Materials	copper alloy, aluminum alloy, stainless steel, PTFE
Surfaces	silver
Environmental conditions	ETSI EN 300 019-1-3 V2.3.2 (2009-1) class 3.1 N

<sup>1)</sup> For total reflection with arbitrary phase at output port; balanced feeding at input ports mandatory.

<sup>2)</sup> To calculate the sum of all peak voltages you have to add peak voltages of all sources and possible reflected voltages coming from reactive loads.

<sup>3)</sup> Measured at output port

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## Dimensions:

