



PRELIMINARY Specification Sheet

Radial Power Combiner

Model: C4U-2G6-NN-RAD

2.0 – 6.0 GHz

Summary

The C2U-2G6-NN-RAD is a high-power very low-loss radial power combiner, most often used for final power combining in high power broadband amplifiers, but also in some cases as a high-power unisolated power divider. Material selection and sizing has been based on achieving lowest loss with very high peak and average power ratings, within the limitations of the standard N-type connector.

For any questions regarding power ratings, inquiries for higher power or other special variants, please contact applications@distributed-elements.com.

Electrical Specifications:

Configuration: 4x N-type input / 1x N-type output

Impedance: 50 ohm in / 50 ohm out

Frequency: 2.0 – 6.0 GHz

CW Power @ STP: 500 W @ 20°C

(Higher powers available)

Peak Power @ STP: 4 kW @ 20°C / 1 atm.

Insertion Loss: max < 0.5 dB ./ typ. < 0.3 dB

Return Loss: min. > 18 dB / typ. > 20 dB

Port balance: ± 0.3 dB / $\pm 3^\circ$

Mechanical and Environmental Specifications:

Maximum Continuous Operating Temperature: -55 to +120°C

Storage Temperature Range: -55 to +155°C

Corrosive Environments: Contact Distributed Elements

Size: 2.1 x 2.1 x 4.5 in (5.3 x 5.3 x 11.4 cm) at connector ref. planes

Weight: 0.8 lb. (0.4 kg)

