



PRELIMINARY Specification Sheet

Planar Power Combiner

Model: C2U-3G6-7H7H

3.0 – 6.0 GHz

Summary

The C2U-3G6-7H7H is a high-power very low-loss coaxial 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. Product makes use of air line structure for lowest loss, and high-temperature DIN 7-16 connectors for maximum power handling under all load and environmental conditions.

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

Electrical Specifications:

Configuration: 2x DIN 7-16(f) HT input / 1x DIN 7-16(f) HT output

Impedance: 50 ohm in / 50 ohm out

Frequency: 3.0 – 6.0 GHz

CW Power @ STP > 1500 watts @ 50°C

(Higher powers available)

Peak Power @ STP: 15 kW @ 20°C / 1 atm.

Insertion Loss: max < 0.35 dB / typ. < 0.25 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 (160°C option avail.)

Storage Temperature Range: -55 to +155°C

Corrosive Environments: Contact Distributed Elements

Size: 3.5 x 2.5 x 1.3 in (8.9 x 6.2 x 3.3 cm)

Weight: 0.9 lb. (0.4 kg)

