

X-Band Junction Circulator

DESCRIPTION

The B3JC1660 is a 3-port, H-plane, X-band junction circulator designed for the low-cost marine radar market.

SPECIFICATION

Electrical

Frequency range.....	8.85 to 8.95 GHz
Return loss (see note 1).....	20 dB min
Insertion loss.....	0.4 dB max
Isolation.....	20 dB min
Power handling (see note 2).....	30 kW peak
	30 W mean

Environmental

Operating temperature range.....	-30 to +75°C
Storage temperature range.....	-40 to +90°C
Shock.....	100G

Mechanical

Waveguide	WG16
Material	aluminium alloy
R.F. flanges	to mate with UG135/U MIL-F3922/54C
	PBR100
Weight	150 g approx

NOTES

1. Unused ports terminated a matched termination
2. Output port terminated with v.s.w.r. 2.0:1 maximum.
3. The protective tape covering the waveguide must be removed before assembly.
4. Strong magnetic fields may affect operation. Magnetic components must be kept 50 mm from the unit during operation

OUTLINE

Ref	Millimeters
A	50.0 ± 0.2
B	50.0 ± 0.5
C	50.0 ± 0.5
D	4.3 + 0.3 - 0.1
E	28.6 ± 0.2
F	32.5 ± 0.2
G	31.0 ± 0.2

