

**X-Band Junction Circulator**

**DESCRIPTION**

The B3JC1651 is a 3-port, H-plane, X-band junction circulator designed for the low-cost marine radar market.

**SPECIFICATION**

**Electrical**

Frequency range.....	9.0 to 9.2 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

