

DESCRIPTION

The B3JC1649 is a 3-port, H-plane, X-band junction circulator designed for the low-cost marine radar market

SPECIFICATION

Electrical

Frequency range.....	9.3 to 9.5 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 max

OUTLINE

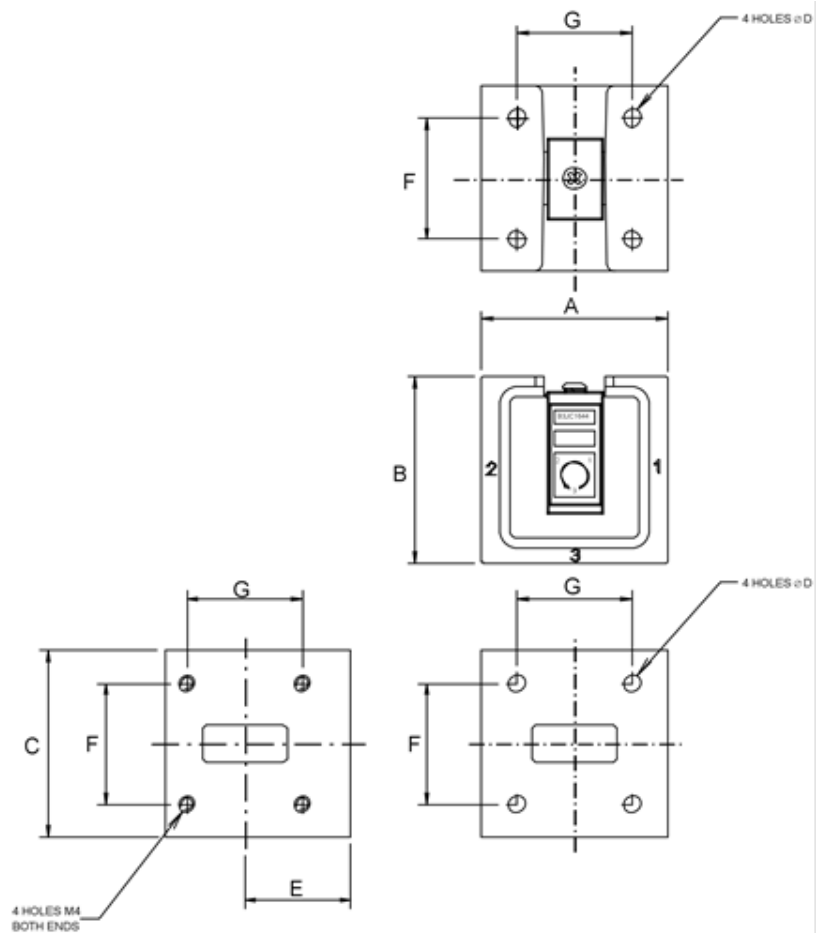
Ref	Millimeters
A	50.0 ± 0.2
B	50.0 ± 0.5
C	50.0 ± 0.5
D	4.3 + 0.3 - 0.1
E	28.6 ± 0.2
F	32.5 ± 0.2
G	31.0 ± 0.2

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



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