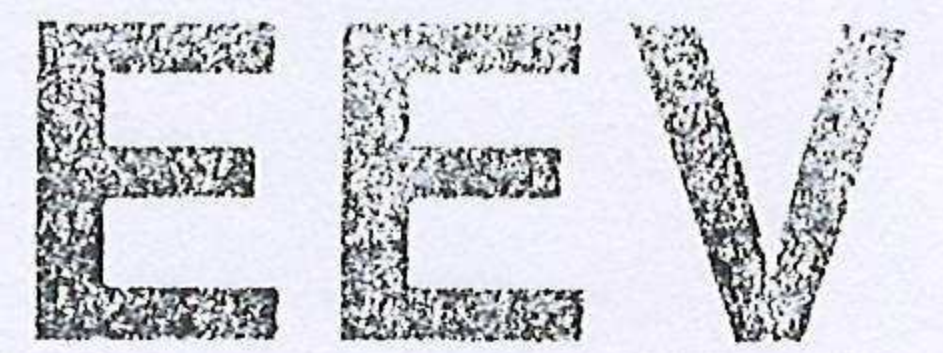


X-Band Junction Circulator

B3JC1649



DESCRIPTION

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

SPECIFICATION

Electrical (Over operating temperature range)

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

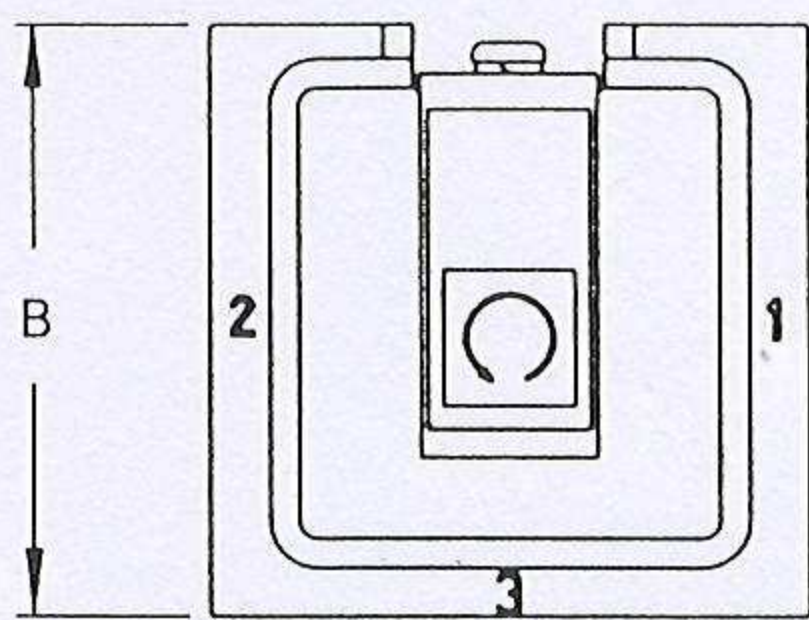
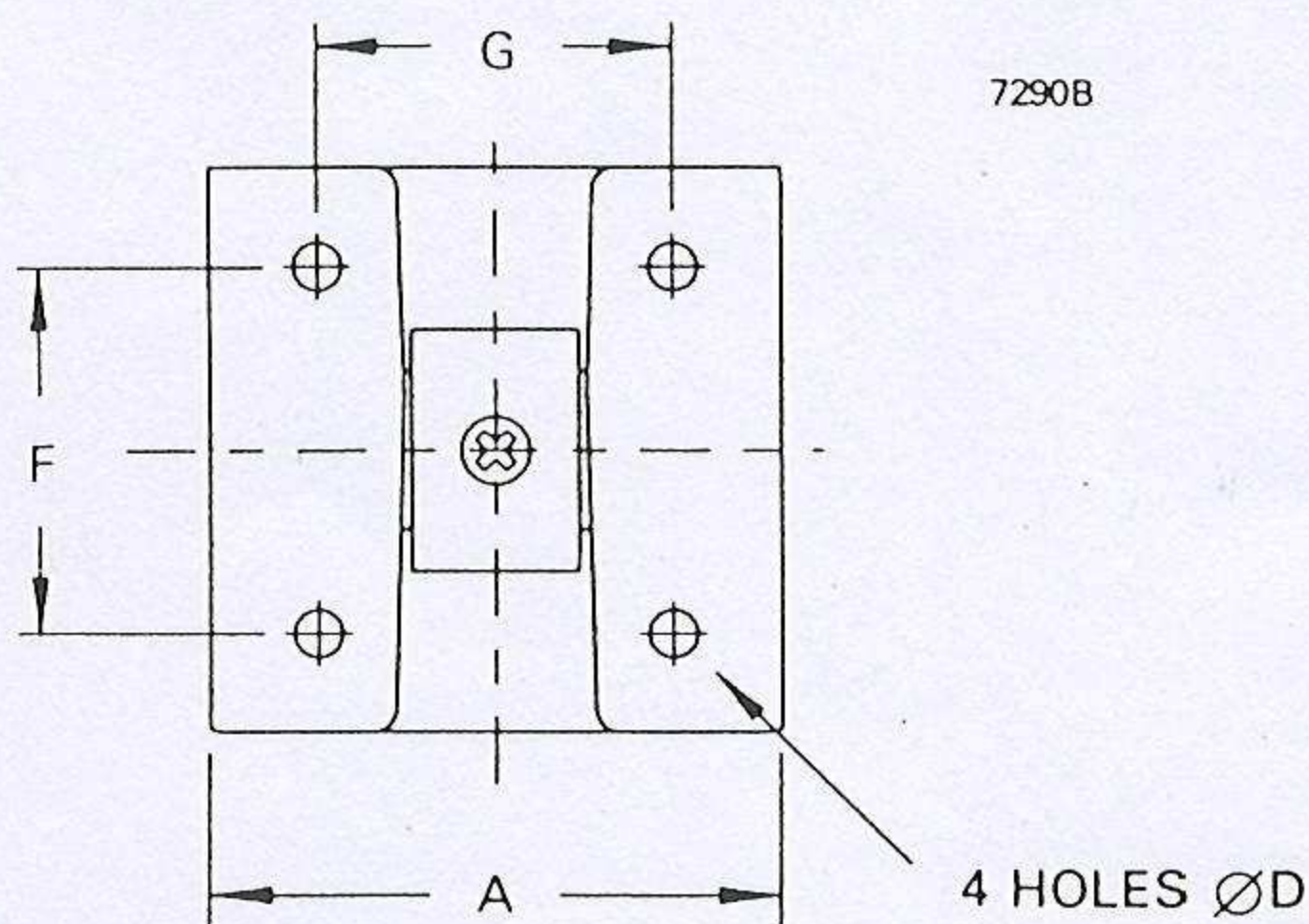
Mechanical

Waveguide	WG16
Material	aluminium alloy
Finish	Alocrom
R.F. flanges	to mate with UG135/U MIL-F-3922/54C PBR100
Weight	150 g approx

Environmental

Operating temperature range	-30 to +75	°C
Storage temperature range	-40 to +90	°C

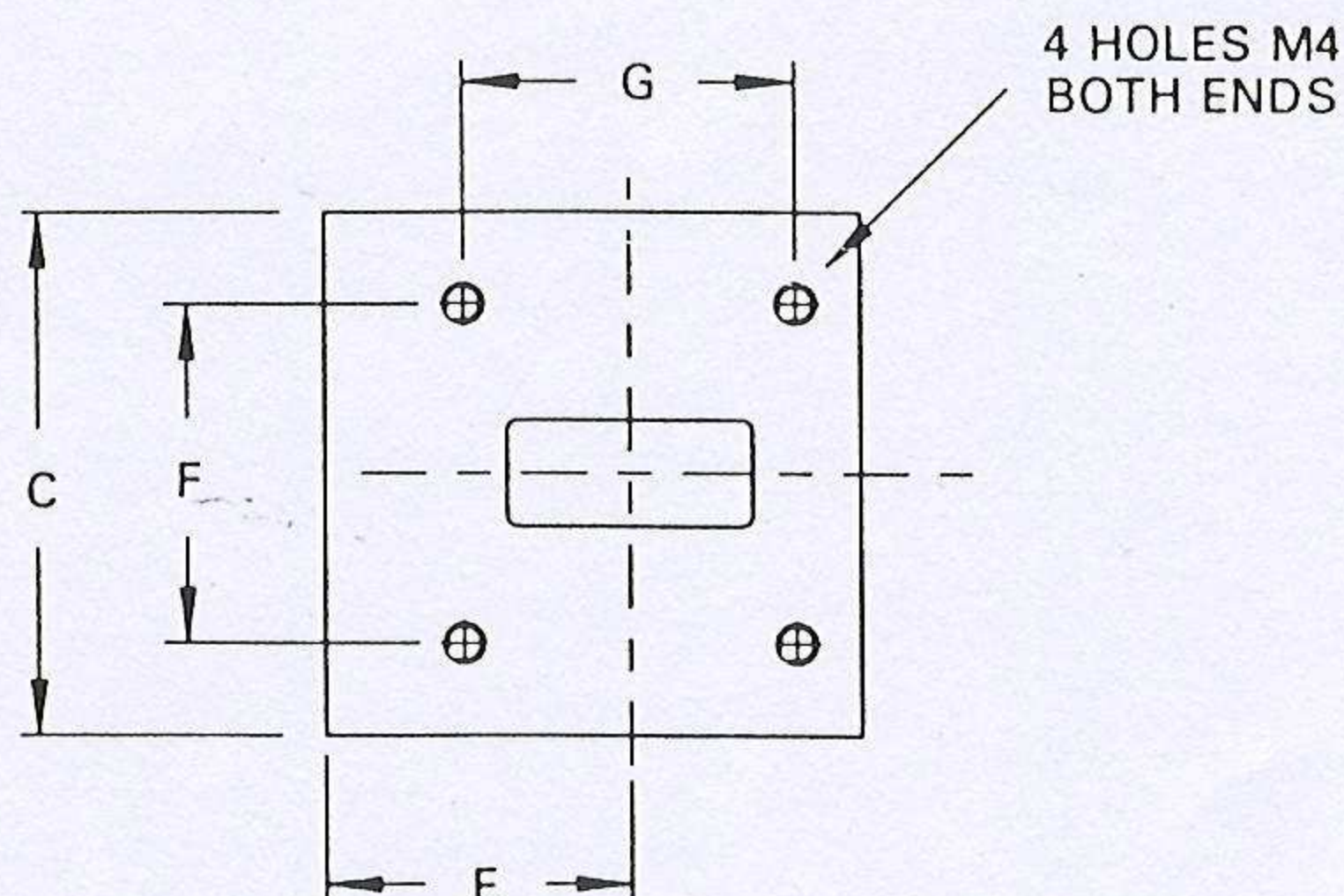
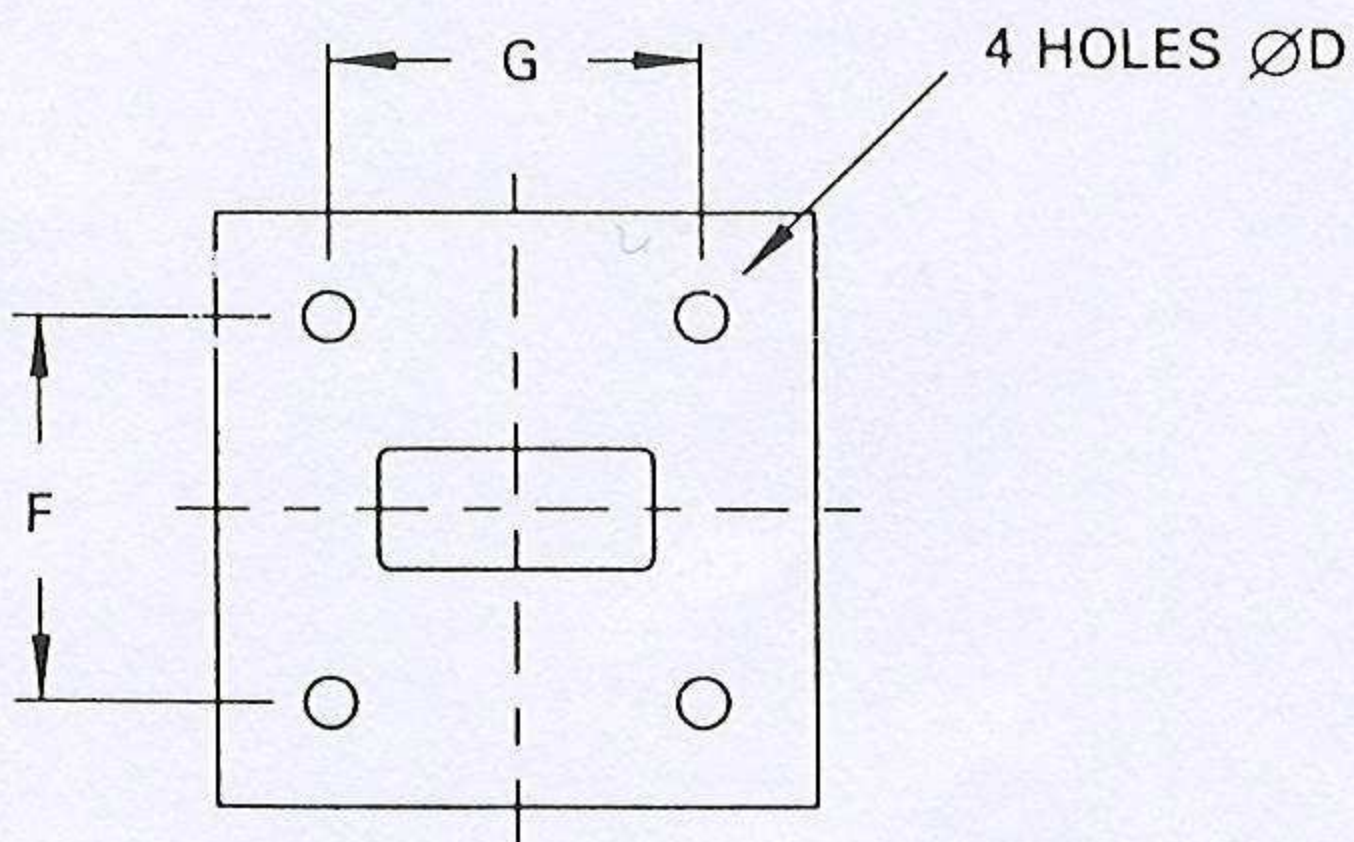
OUTLINE



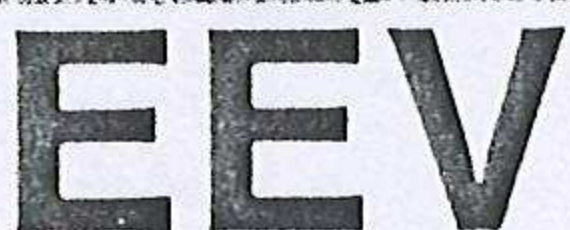
NOTES

1. Unused ports terminated with 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 not come within the device outline.

Ref	Millimetres
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



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