

DESCRIPTION

The B3LT1649 is a solid state limiter which provides effective receiver protection at power levels up to 25 kW. A filter network is included to give broadband protection against magnetron-generated spurious and second harmonic signals.

CHARACTERISTICS

(at 20°C ambient, see note 1)

Frequency range 9.36 to 9.46 GHz
 Return loss (see note 2) 20 dB min
 Insertion loss (see note 2) 1.0 dB min
 Total peak leakage (see note 3) 100 mW max
 Recovery to -3 dB (see note 3) 1.3 µs max

MAXIMUM AND MINIMUM RATINGS

	MIN	MAX	
Input power (peak)	-	30	kW
Duty ratio	-	0.001	
Pulse duration	-	1.5	µs
Ambient temperature:			
storage	-55	+90	°C
operating	-40	+90	°C

GENERAL

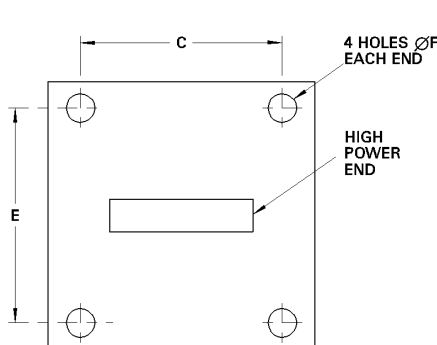
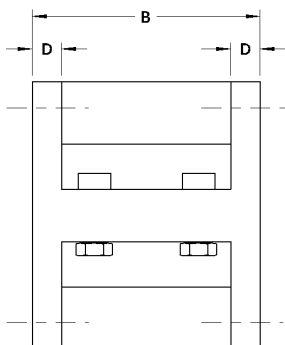
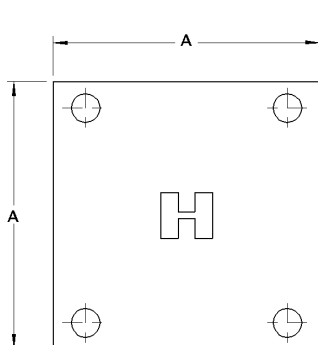
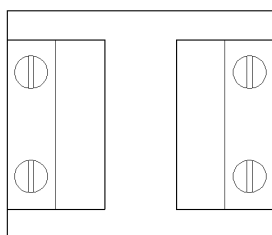
Overall dimensions 41 x 41 x 35 mm nom
 Waveguide size WG16 (WR90)
 Coupler mates with UG39/U
 Finish aluminium
 Mounting position any
 Net weight 100 g approx.

NOTES

- Parameters change over the temperature range. Consult e2v for details. Performance measured only at ambient temperature.
- Measured at a power level below that at which the limiter begins to self-bias.
- Measured at 25 kW peak, pulse duration 1.0 µs, 1000 pps.

OUTLINE (All dimensions without limits are nominal)

7202A



Ref	Millimetres
A	41.0
B	35.0 ± 0.2
C	31.0 ± 0.1
D	3.9
E	32.5 ± 0.1
F	4.3 ± 0.1

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e2v technologies (uk) limited, Waterhouse Lane, Chelmsford, Essex CM1 2QU United Kingdom Holding Company: e2v technologies plc

Telephone: +44 (0)1245 493493 Facsimile: +44 (0)1245 492492

Contact e2v by e-mail: enquiries@e2v.com or visit www.e2v.com for global sales and operations centres.

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