



B3LT1612 Solid-State Limiter

The data should be read in conjunction with the Duplexer Devices Preamble.

DESCRIPTION

The B3LT1612 is a passive, solid-state limiter which provides effective receiver protection at power levels up to 12 kW.

The device is suitable for applications behind a circulator. A filter network is included to give broadband protection against magnetron-generated spurious signals.

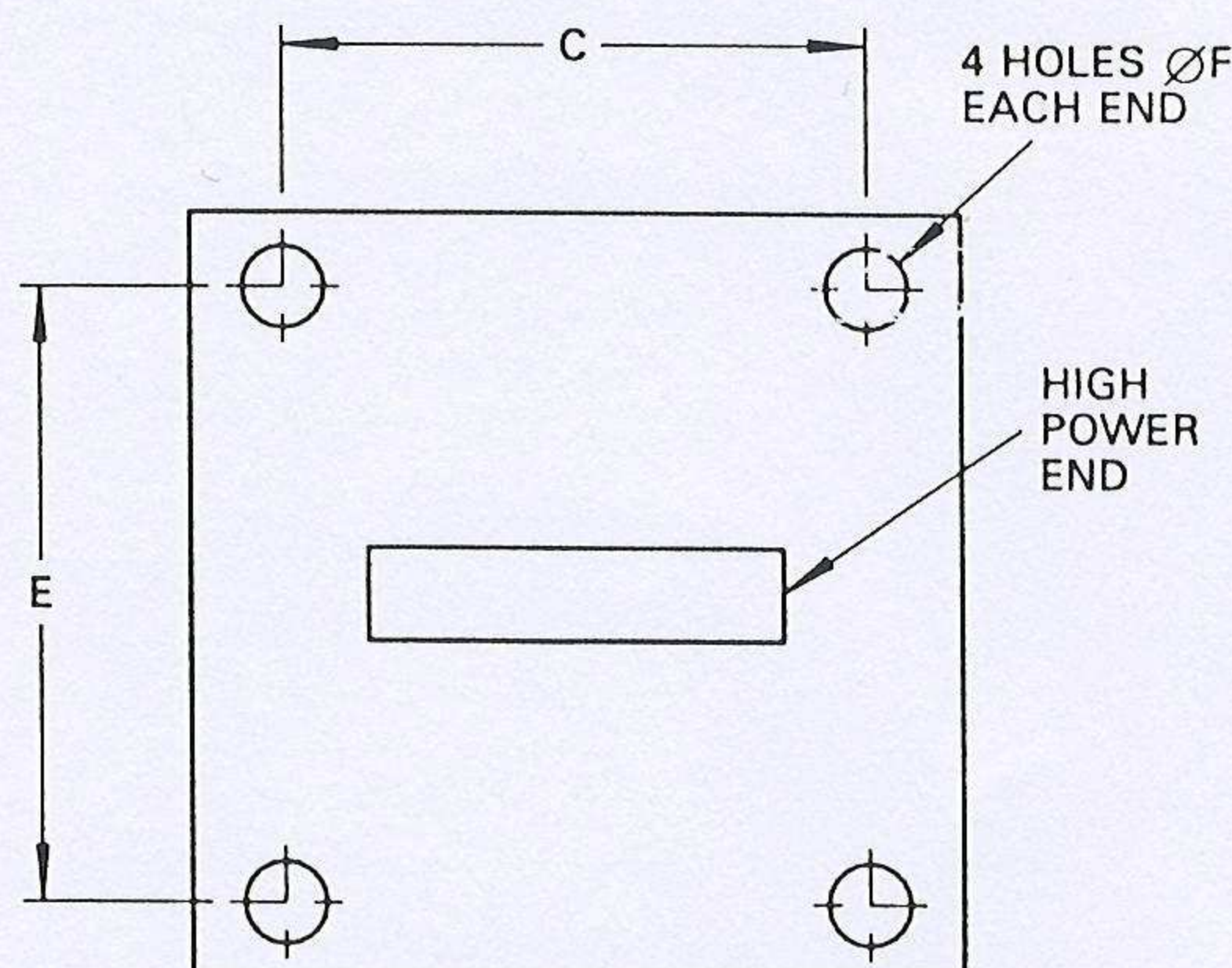
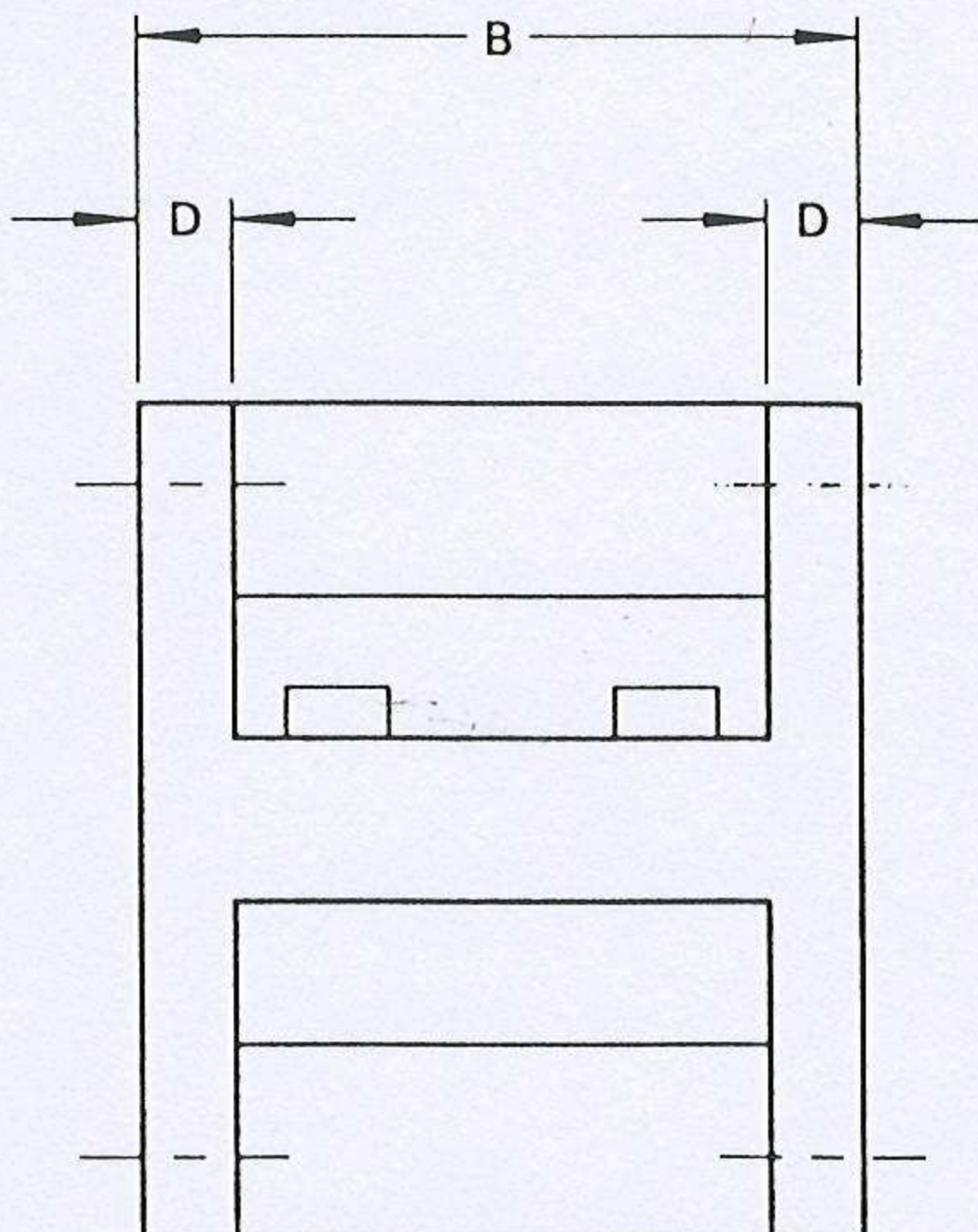
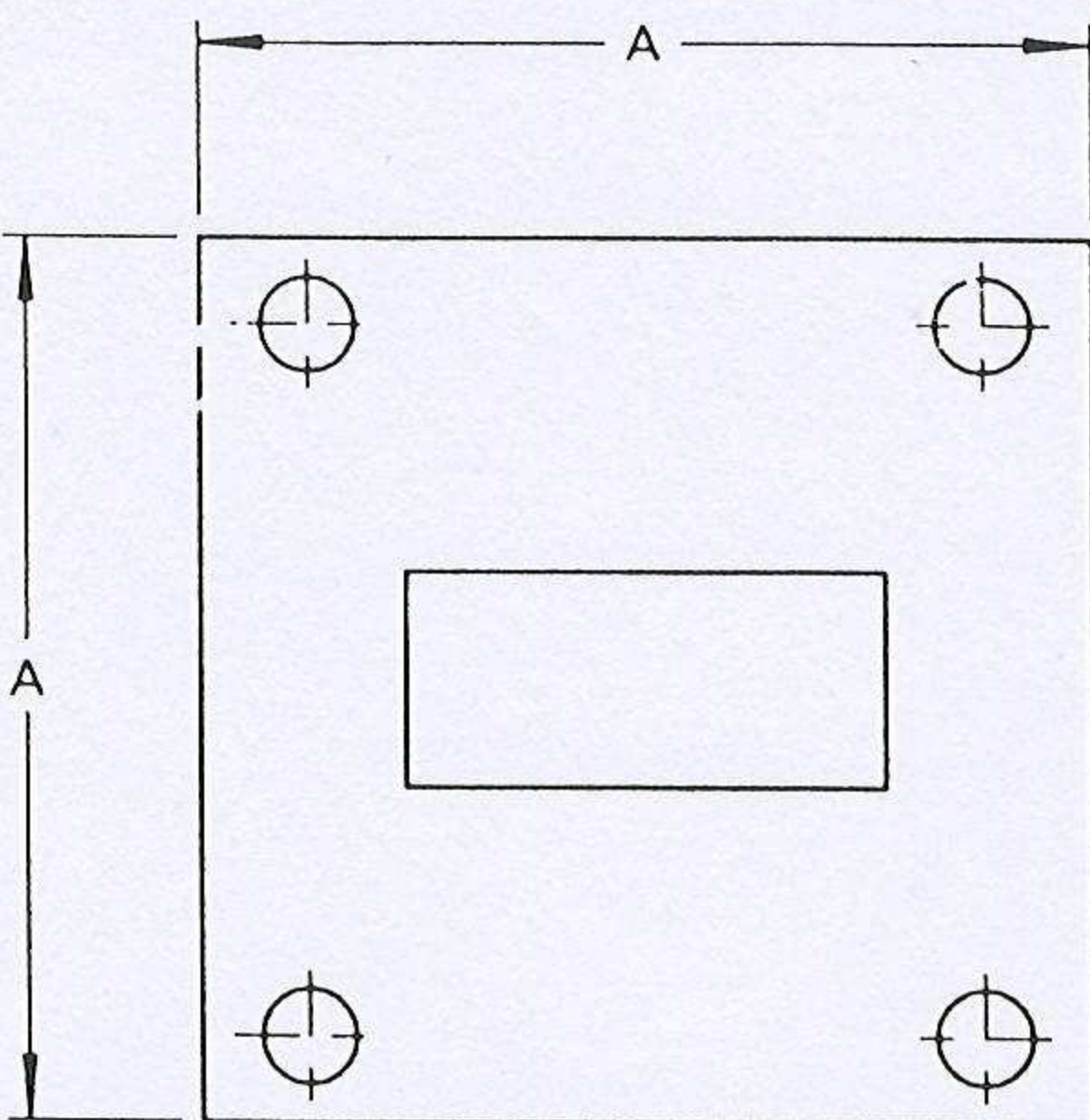
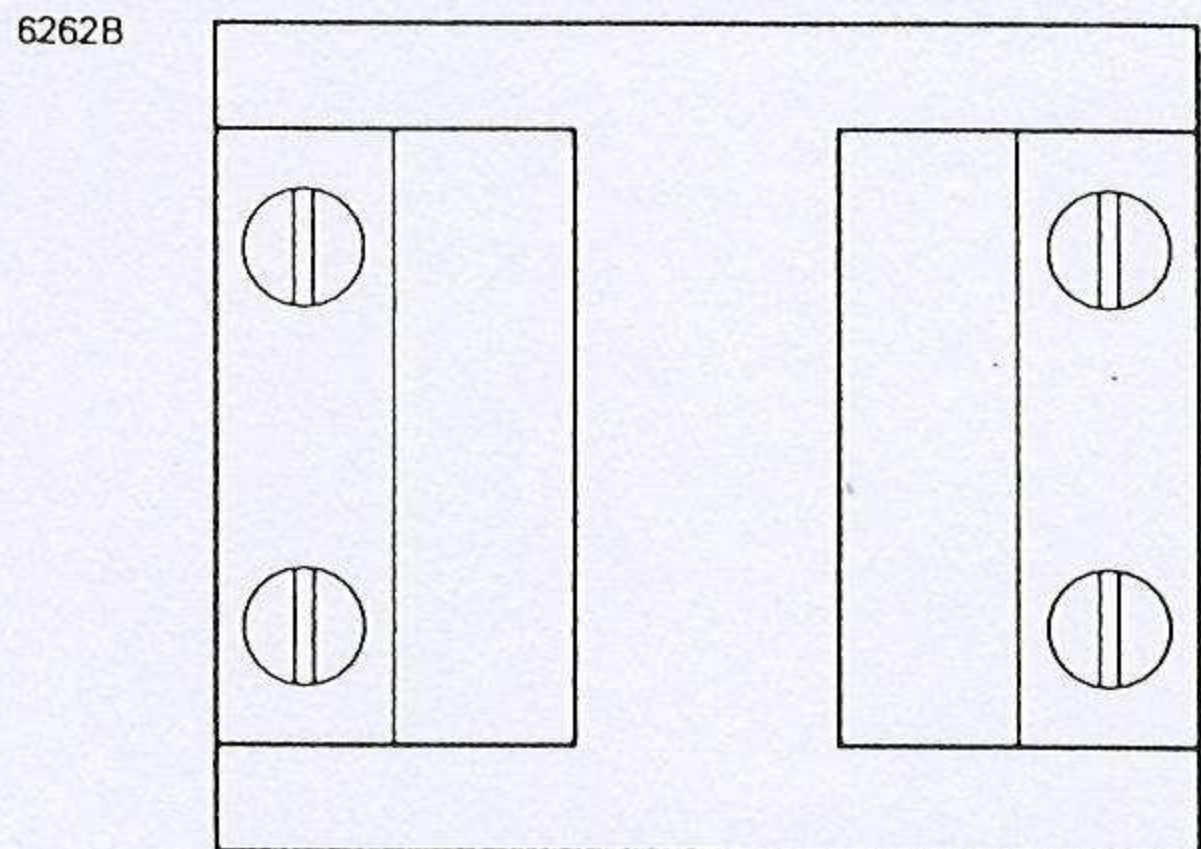
CHARACTERISTICS

Frequency range	9.3 to 9.5	GHz
VSWR (see note 1)	1.4:1	max
Insertion loss (see note 1)	1.0	dB max
Leakage:		
spike (see note 2)	20	nJ max
total (see note 3)	100	mW max
Recovery to -3 dB (see note 3)	1.0	µs

OUTLINE

(All dimensions without limits are nominal)

6262B



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

MAXIMUM AND MINIMUM RATINGS

	Min	Max	
Input power (peak) (see note 4)	-	6.0	kW
Mean power	-	12	W
Pulse duration	-	1.0	µs
Ambient temperature:			
storage	-50	+90	°C
operating	-40	+85	°C

GENERAL

Overall dimensions	41 x 41 x 35 mm nom
Waveguide size	WG16, WR90
Connector	mates with UG-39/U
Finish	gold alocrom
Mounting position	any
Net weight	100 g approx

NOTES

1. Measured at a power level below that at which the limiter begins to bias.
2. Measured at 9.41 GHz, 5 kW peak, pulse duration 0.1 µs.
3. Measured at 9.41 GHz, 5 kW peak, pulse duration 1.0 µs, 1000 pps.
4. The device will withstand up to 12 kW peak for short periods during set-up or fault conditions.

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EEV Limited, Waterhouse Lane, Chelmsford, Essex CM1 2QU England Telephone: +44 (0)1245 493493 Facsimile: +44 (0)1245 492492 e-mail: info@eev.com
Internet: www.eev.com Holding Company: The General Electric Company, p.l.c.

EEV, Inc. 4 Westchester Plaza, PO Box 1482, Elmsford, NY10523-1482 USA Telephone: (914) 532-6050 Facsimile: (914) 682-8922 e-mail: info@eevinc.com