



PLUG-IN PRE-TR TURE

Service Type CV6028

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

DESCRIPTION

Broad-band, low loss, plug-in pre-TR tube with no external connections.

CHARACTERISTICS (See note 1)

Frequency range (see note 2)					2.0) to	12	GHz
Breakdown power (see note 3) .							20	kW max
Recovery period to -3db (see no	te 4	1)					25	μs max

MAXIMUM AND MINIMUM RATINGS

										Min	Max	
Transmitte	er p	ow	er ·	see	n	ote	5):					
peak										_	2.5	MW
mean										-	3.0	kW
Pulse lengt	th								,	-	2.5	μs
Waveguide	pr	essı	ıre								300	kN/m²
										-	44	lb/in²
Ambient t	em	per	atu	re						50	+100	°C

GENERAL

Overall dimensions							se	e O	utline
Radio-active content (see note 6)				10	mic	croc	curie	s a	prox
Mounting position (see note 7) .									any
Net weight							10	a aı	xorac

NOTES

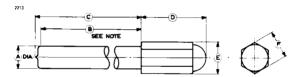
- The tube is tested at 9.5 ± 0.5GHz in a balanced duplexer in WG16 waveguide; the maximum v.s.w.r. looking outwards from the duplexer does not exceed 1.2:1 on any arm. A pulse length of 0.2µs ± 10% at a duty cycle of 0.0002 ± 10% is used.
- The tube may be used in a suitable waveguide mount at any frequency within this range. The bandwidth and matching are determined by the design of the mount.



- 3. The power incident on a balanced duplexer.
- 4. Measured with peak input power 50kW + 10%.
- The power incident on a balanced duplexer where two tubes are each operating across both arms of the duplexer.
- The radio-activity is low energy β emission, which is completely absorbed by the silica envelope of the tube.
- 7. The hole through which the tube passes should be 0.3576 ± 0.0005 inch $(9.083 \pm 0.013 \text{mm})$ diameter.



OUTLINE



Ref	Inches	Millimetres
A	0.3568 ± 0.0002	9.063 ± 0.005
В	6.500 min	165.1 min
С	7.000 max	177.8 max
D	1.000 ± 0.010	25.40 ± 0.25
Ε	0.505 max	12.83 max
F	0.434 ± 0.003	11.024 ± 0.076

Millimetre dimensions have been derived from inches.

Outline Note Dimension B refers to the ground length.