



## PLUG-IN TR TUBE

### Service Type CV6129

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

### DESCRIPTION

Plug-in, primerless TR tube.

### CHARACTERISTICS (See note 1)

Frequency range	2600 to 3950	MHz
Centre frequency (see note 2)	3600 to 3645	MHz
V.S.W.R. (see note 3)	1.12:1	max
Maximum leakage		
spike energy (see note 4)	1.0	$\mu$ J/pulse
high power total (see note 5)	3.6	W
low power	10	W
Attenuation recovery period to 3db (see note 5)	30	$\mu$ s max
Insertion loss (see note 3)	0.2	db max

### MAXIMUM AND MINIMUM RATINGS

	Min	Max	
Transmitter power (peak)	0.01	5.0	kW
Transmitter power (mean)	—	5.0	W
Ambient temperature (non-operating)	-40	+100	$^{\circ}$ C

### GENERAL

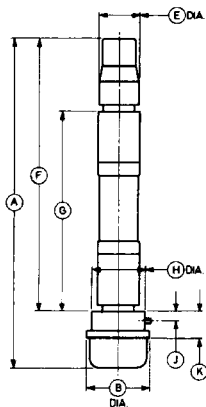
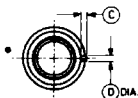
Overall dimensions	see Outline
Finish	metal parts silver or nickel plated
Mounting position	any
Net weight	120g (4.2 ounces) approx

### NOTES

1. The tube is designed for use in a no. 10 or no. 11 waveguide mount. The frequency and performance characteristics depend on the design of the mount, which should have a loaded Q of 6.0 max. with the tube installed.
2. The geometric mean of the frequencies at which the v.s.w.r. is 1.33:1.
3. Measured at a low power level, at 3620MHz.
4. Measured at 5.0kW peak power, 0.1 $\mu$ s pulse length and 1000p.p.s.
5. Measured at 5.0kW peak power, 1.0 $\mu$ s pulse length and 1000p.p.s.

## OUTLINE

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Ref	Millimetres	Inches
A	$132.0 \pm 5.0$	$5.197 \pm 0.197$
B	25.40 max	1.000 max
C	$1.40 \pm 0.13$	$0.055 \pm 0.005$
D	$1.40 \pm 0.13$	$0.055 \pm 0.005$
E	15.85 max	0.624 max
	15.77 min	0.621 min
F	112.0 max	4.409 max
G	$82.4 \pm 0.9$	$3.244 \pm 0.035$
H	$21.50 \pm 0.05$	$0.846 \pm 0.002$
J	$3.95 \pm 0.15$	$0.156 \pm 0.006$
K	$11.0 \pm 0.3$	$0.433 \pm 0.012$

Inch dimensions have been derived from millimetres.