BS714

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	μJ/pulse
high power total (see note 5)	3.6	W
low power	10	W
Attenuation recovery period to −3db (see note 5)	30	μs 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	°C

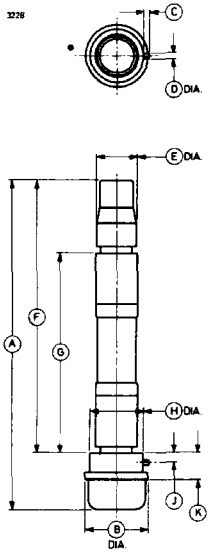
GENERAL

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, 0.1μs pulse length and 1000p.p.s.
5. Measured at 5.0kW peak power, 1.0μs pulse length and 1000p.p.s.

OUTLINE



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

Inch dimensions have been derived from millimetres.