



Service Type CV6070

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

DESCRIPTION

X-Band TB tube.

CHARACTERISTICS

Resonant frequency	9375	MHz
Loaded Q	6.5	max
Equivalent susceptance	± 0.06	max
Equivalent conductance	0.1	max
Firing time (see notes 1 and 2)	10	s max
V.S.W.R. (see note 3)	1.1:1	max
Recovery loss at $2\mu\text{s}$ (see note 4)	2.0	db max
Arc loss (see note 1)	0.8	db max

MAXIMUM AND MINIMUM RATINGS

	Min	Max	
Transmitter power (peak)	4.0	250	kW
Waveguide pressure	—	300	kN/m^2
		44	lb/in^2
Ambient temperature (non-operating)	-40	+100	$^{\circ}\text{C}$

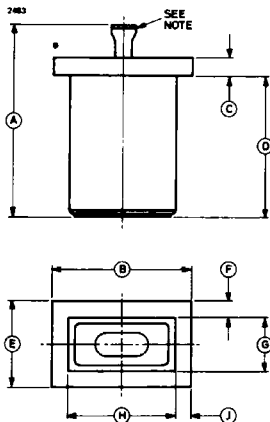
GENERAL

Overall dimensions	1.813 x 1.303 x 0.803 inches max
	46.05 x 33.10 x 20.40mm max
Finish	tin or silver plated
Mounting position	any

NOTES

1. Measured at 4.0kW peak power, $1.0\mu\text{s}$ pulse width and 1000p.p.s.
2. This test is performed at least 24 hours after any previous discharge.
3. Measured at 40kW peak power, $1.0\mu\text{s}$ pulse length and 1000p.p.s.
4. Measured at 12 to 15kW peak power (derived from a higher power source through an attenuator of at least 6db), $1.0\mu\text{s}$ pulse length and 1000p.p.s.

OUTLINE



Ref	Inches	Millimetres	Ref	Inches	Millimetres
A	1.813 max	46.05 max	F	0.142 min	3.61 min
B	1.303 ^{+0.000} _{-0.006}	33.10 ^{+0.00} _{-0.15}	G	0.510 ^{+0.000} _{-0.020}	12.95 ^{+0.00} _{-0.51}
C	0.133 ^{+0.000} _{-0.016}	3.38 ^{+0.00} _{-0.41}	H	1.010 ^{+0.000} _{-0.020}	25.65 ^{+0.00} _{-0.51}
D	1.299 ^{+0.005}	32.99 ^{±0.13}	J	0.142 min	3.61 min
E	0.803 ^{+0.000} _{-0.006}	20.40 ^{+0.00} _{-0.15}			

Millimetre dimensions have been derived from inches.

Note The seal-off will pass through a hole 0.375 inch (9.53mm) diameter, centred on the centre of the flange.