JEDEC TYPE DESIGNATION REGISTRATION FORM

DOUBLE TR TUBE

November 29, 1962

Manufacturer's Designation: BL-625 JEDEC Designation 6805

Manufacturer: Varian Associates, Bomac Division

Beverly, Massachusetts

GENERAL CHARACTERISTICS

The 6805 is a double broadband TR tube designed to operate in a system which makes use of each half of the tube in separate channels. The description "double" is used rather than "dual" to distinguish it from tubes designed for balanced duplexer operation used in conjunction with a pair of short-slot hybrid couplers. It is for use with RG52/U size waveguide. It is an integral cavity type with fixed tuned elements and has an operational band from 8490 to 9578 megacycles per second.

ELECTRICAL DATA (Note 1)

Opera	tional	Band
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VSWR - 1.9 (max)	8490 to 9578 Mc/seconds
VSWR - 1.4 (max)	8565 to 9487 Mc/seconds
Ignitor Ignition Time (max)	5 seconds
Ignitor Current (typical) at Ebb = -650 Vdc (Note 2)	150 μAde
Spike Leakage Energy (max)	0.3 ergs
$F=9000 \text{ Me}$; po = 40 kw; tp = 1.0 μ s;	
$tp2=0.5 \mu s$; $prr = 1000 pps$; $Ebb = -650Vdc$	
Flat Leakage Power (max)	40 mw
For conditions - see Spike Leakage	
Insertion Loss (max) at $F=9000$ Mc and $Ii=0$	0.7 db
Ignitor Interaction (max) at F=9000 Mc and Ii = 100 μ Adc	0. 2 db
Recovery Time (max.) at 200 kw peak	10 μs

ABSOLUTE MAXIMUM RATINGS

Transmitter Peak Power	200 kw
Transmitter Average Power	200 W
Ignitor Current	200 μAdc

MECHANICAL DATA - GENERAL

Mounting Position Number of Electrodes Weight (approx)

Any Two 8 ounces

OUTLINE DRAWING

Outline as per attached drawing dated 7-6-56.

Tube Mounting per attached drawing dated 11-2-54.

Note 1: Each half of the tube is measured as a separate unit.

Note 2: A 2.7 megohm resistor is encapsulated at each ignitor.



