

Helix Voltage Range

Grid Voltage Range

## engineering data service

MECHANICAL DATA			QUICK REFERENCE DATA
Envelope Power Connector RF Connectors Focusing Electromagnetic Cooling <sup>2</sup> Mounting Position Tube Weight (Approx.) Solenoid Weight (Approx.): Military (Aluminum foil-wound) Non-Military (Copper wire-wound)	1	l l i r	Traveling-wave Amplifier Full Octave Coverage 1.0 to 2.0 Gc Over 2 W CW Power Output Suitable for Airborne Applications
ELECTRICAL DATA 3			
HEATER CHARACTERISTICS			
Voltage Current (at 6.3 V) Minimum Preheat Time	6.3 ± 10 1.1 - 1.		
RATINGS (Absolute Maximum)			
Collector Voltage with Respect to He Helix Voltage Grid Voltage Cathode Current Helix Current Grid Current CW RF Input <sup>14</sup> Collector Seal Temperature TYPICAL OPERATION <sup>5</sup>	100 80 6 1	Vdc Vdc Vdc mAdc mAdc mAdc	
Conditions			
Frequency Magnetic Focusing Field Density Minimum Uniform Length Collector Voltage with Respect to Helix Voltage (Approx.) Grid Voltage (Approx.)	9. Helix 15 60	Ge Geusses Inches Vdc Vdc Vdc	POWER CONNECTIONS A. NC
Characteristics	Min. Max	<u>.</u>	B. Grid C. Helix
Cathode Current Helix Current Grid Current Saturation Power Output Small Signal Gain (-30 dbm Input) CIRCUIT DESIGN INFORMATION?	- - 2	mAde mAde mAde mAde w db	D. Heater, Cathode E. Heater F. Capsule, Collector  SYLVANIA ELECTRIC  PRODUCTS INC.

February 15, 1961

520 to 680 Vac

350 to 700 Vac

MICROWAVE DEVICE OPERATIONS

Mountain View, California

## BYLVANIA

6752

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## NOTES:

- 1. Alternative connectors supplied on request. Length of power and RF leads can be made to fit customer requirements.
- 2. In addition to the cooling air requirements for the solenoid used with this tube it is recommended that at least 0.2 lbs/min of less than 26°C cooling air be directed at the collector end of this tube.
- 3. All voltages given are with respect to the cathode except where specified otherwise. For safety, pin F and the solenoid case should be grounded.
- 4. When RF is applied to the input of this tube the RF output should be connected to a load.
- 5. The quoted tube performance is for operation in a Sylvania-approved solenoid. Additional information will be supplied on request.
- 6. Specific recommended operating voltage values supplied with each tube.
- 7. Ranges include values required as a result of initial spread in tube characteristics as well as those to accommodate changes throughout life.
- 8. For initial setup only, this voltage should be adjustable from zero upward.

TYPICAL PERFORMANCE CHARACTERISTICS





