communications
Electron Devices

L6035
Mini-Traveling Wave Tube

Features:

- ***4.5 to 18.0 GHz***
- ***35 Watts Minimum***
- ***30 dB Gain Minimum***

Performance Characteristics

Frequency	4.5 to 18.0 GHz
RF Output Power	35 W min
RF Input Power	22 dBm max
Small Signal Gain	30 dB min
Gain Tracking	±2.5 dB
Noise Power Density- Beam On	-30 dBm/MHz
AM/PM Conversion	6°/dB max
Harmonics -4.5 GHz	+3 dBc max
Harmonics -6.0 GHz	-2 dBc max

Typical Operating Conditions

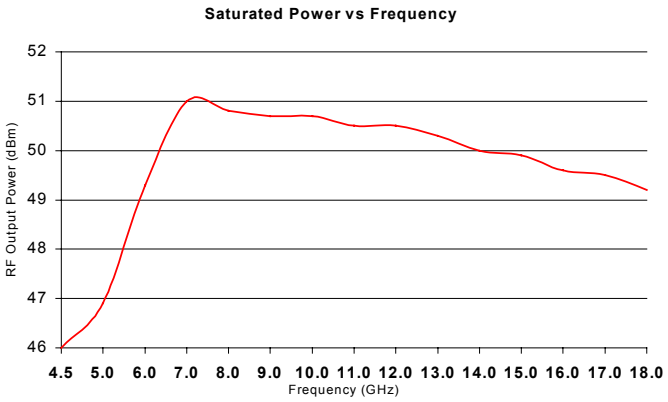
Duty	CW
Cathode Voltage	-4550 ± 22 VDC
Cathode Current	180 mA max
Helix Current- no RF	0.5 mA min, 3 mA max.
Helix Current-RF	13 mA max
Beam Control	
Electrode Voltage	-1000 VDC
Electrode Current	1 mA
Filament Voltage	-6.3 VDC
Filament Current	0.6A
Collector 1 Voltage	2400 ± 100 VDC
Collector 1 Current	2 mA min, 125 mA max
Collector 2 Voltage	1550 ± 50 VDC
Collector 2 Current	50 mA min, 180 mA max
Prime Power - no RF	270 watts max.
Prime Power - RF	370 watts max.

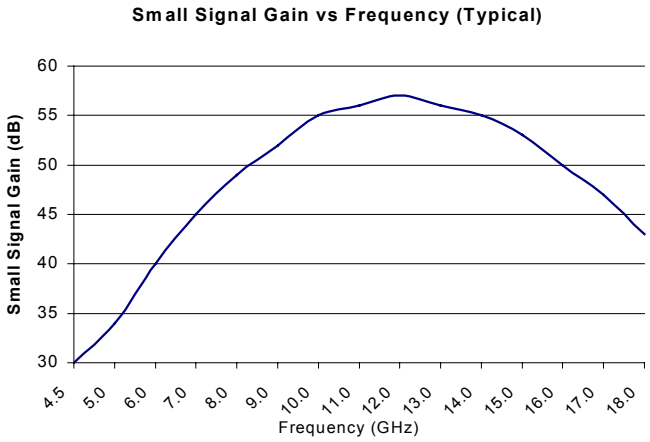
Mechanical Description

Dimensions*	9.0" x 1.8" x 1.0"
Weight	<1.5 lbs
Cooling	Conduction
Baseplate Temp	-54° C to +110 ° C
RF Input Connector	SMA
RF Output Connector	TNC

All voltages with respect to cathode *unpackaged

The L6035 is an unpackaged helix traveling tube with a power output of 35 to 135 watts over the frequency range of 4.5 to 18.0 GHz. The tube has a metal-ceramic vacuum envelope, a beam control element, a multi-stage depressed collector for high efficiency and utilizes periodic permanent magnet focusing. The L6035 is suitable for use in airborne and shipboard applications. DS60351102





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