

# EITEL-MCCULLOUGH, INC.

EM 116
TRAVELING WAVE
TUBE

The EM116 is a 2% duty cycle TWT providing 1.6 kw of power over the frequency range of 2.9-3.1 Gc. This tube is PPM focused and of metal-ceramic construction for use in stringent environments.

### **ELECTRICAL SPECIFICATIONS**

Absolute Ratings			Maximum
Filament Voltage			7.0 Volts
Pulse Cathode Voltage			-8000 vdc
Peak Cathode Current			2.0 adc
Duty Cycle			2%

## **Operating and Performance Data**

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Filament Voltage					6.3 Volts
Filament Current					3.0 Amperes
Cathode Voltage					-7500 Vdc
Peak Cathode Current					1.3 adc
Duty Cycle					2%
Frequency Range					
Small Signal Gain-Min					36 db
Saturated Power Out-N		1.6 kw			
Saturated Gain-Minim	um	١.			30 db

### **ENVIRONMENTAL SPECIFICATIONS**

Complies with	ΜII	5	400	C	las	s II	Εc	luit	oment
Temperature									-65°C to +125°C

## **MECHANICAL SPECIFICATIONS**

Operating Position				
Input Coupling, rf				TNC
Output Coupling, rf				TNC
Focusing				
Cooling				75 CFM forced air
Dimensions				See outline drawing
Weight				
Supply Connections				Cathode—yellow
				Filament-brown
				Grid-green

NOTE: Electrode Voltages are with respect to cathode; tube shell at ground potential.







