

H60A-650CI 400 W C-Band, 650 W X-Band TWT Amplifier C and X Bands

DESIGN FEATURES

- Hub-Mount Chassis w/Low Cost Installation
- Highly Efficient Power Supply & TWT
- AC Input Power
- X Band Linearizer (Optional)



RF Specifications

Operating frequency ranges.....	5.85 to 6.425 GHz	7.9 to 8.4 GHz
Saturated power:	+56 dBm, nom.	+58.0 dBm, nom.
Gain at rated power	71 dB, min.	75 dB, min.
Input power	-10 dBm, max.	-10 dBm, max.
Second harmonics	-3 dBc, max.	-6 dBc, max.
Gain slope	0.1 dB/MHz, max.	0.1 dB/MHz, max.
Gain variation		
specified bands	±2.0 dB	±2.0 dB
Gain stability (over 24 hrs.)	±.25 dB	±.25 dB

AM to PM Conversion

At rated power 4° per dB

Residual AM/FM

500 Hz to 10 kHz	-50 dBc, min.
10 kHz to 500 kHz	20(1 + log F) dBc
Above 500 kHz	-74 dBc, min.
Spurious output	-5 dBm/MHz
Input VSWR	2.0:1, max.
Output VSWR (non-operating)	2.0:1, typ.
Continuous load VSWR	1.2:1, 2.0:1, max.

Electrical Interface

Prime power	120/208 VAC, 3-phase, nom.
Powerconsumption	2300 W, max.
Remote control	RS 232 or RS 422
Power connector.....	MS27656T15B5P
Remote control connector	MS27656T15B18S
RF input connector	N
RF output flange	WRD580 Gasket Flange

Functional Block Diagram

Environmental Requirements

Ambient temperature	-32 to +50 °C, operational
Altitude	0 to 10000 ft.
Altitude temperature derating	2°C/1000ft
Humidity	100%, condensing
Shock and vibration	Vehicle transportation
Salt atmosphere	As encountered outdoors in coastal areas

Mechanical Specifications

The chassis is designed for outdoor use.

Dimensions

Height (Inches)	6.75
Width (Inches)	12.0
Length (Inches)	27.7
Weight (Lbs.)	58