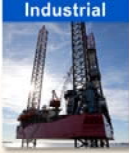


Powered by **Polarity**[®]

POL200W - 18-40GHZ

A Global Leader in Power Solutions



AS 9100:2009 REV C



200W - 18GHz to 40GHz

High Power Wide Band Width MPM—Pulsed or CW

Ideally suited for demanding performance in next generation high bandwidth satellite uplinks. Meeting international standards for safety and EMI/EMC.

RF Performance

- Frequency: 18GHz to 40.0GHz
- RF Output Power: 200W Avg/Pk
- Gain: 50 dB
- Temperature range: -40C to +60C

Built-in protection

- Output arc detector
- Input isolator
- Reverse power detection/c'bar

Additional Options

- Airborne packaging
- High speed modulator
- Liquid/Conduction cooled

Guaranteed Reliability

- Military proven high viscosity coatings for dust and humidity control.
- Critical component designs have accumulated more than 1 million hours of operation.
- Data logging and analysis for cost effective maintenance

Outstanding thermal design ensures reliable operation to ambient temperatures up to +60deg C. The POL200W - 18-40GHz offers a design with industry leading reliability and its power supply design ensures rugged performance that is unmatched.

High efficiency multi-collector designs meet the demands of today's complex systems and offer the ability to effectively power manage the overall network as well as the increasingly challenging requirements for mobile systems.

Optional features: A rich control protocol provides serial RS232/422/485, IEEE 488 ethernet, and advanced user friendly communication to provide data logging for cost effective maintenance.

POL200W - 18-40GHz— **Industry Leading Performance — Affordable — Proven Reliability**

Performance Specifications : POL200W - 18-40GHz

Electrical

Frequency	Band	18GHz –40.0GHz
Output Power TWT Flange		200W (53.0 dBm) min,
Gain		50 dB (min)
Gain variation		2.5 dB p-p (any 1.25 GHz BW) 0.8 dB per 60MHz
Gain Stability 24hr		+/- 0.25dB
Attenuator Range		30 dB, optional
Attenuator Step Size		0.1dB, optional
Input VSWR		1.3:1 max
Output VSWR		1.3:1 max
Line Input		100VDC, 240VAC Single phase, 47to63Hz
Power Factor		PFC > .97

Environmental

Operating Temperature	-40 deg C to +60deg C
Non-Operating	-40 deg C o +50 deg C, direct sunlight 50 deg C to +75 deg C
Relative Humidity	100% non-condensing
Altitude	
Operating	10,000 ft with 2 deg C/ 1000ft derating above sea level
Non-Operating	50,000 ft
Shock	30 g peak , 11 msec , ½ sine
Vibration	2.1 grms , 5Hz to 500Hz
Thermal	Conduction cooled

Mechanical

RF Input	2.4mm
RF Output	WR-34G—ribbed wide band
RF Output Monitor	2.4 mm , female 50dB coupling (nom)
Dimensions (W x L x H)	16" x 10.5" x 3.25"
Weight	19lbs
Mounting Brackets	Side mount fasteners
Outputs	Waveguide and control I/O can be mounted on front or back panels.

Interface

	RS-232 /422/485 IEEE 488 Ethernet USB
Remote/Local Control	Status, Transmit, RF Inhibit, Fault Status Attenuator Control Internal data logging Discrete Status Summary fault

