



## IA00103P56 / 1.5-30 MHz-400 W Amplifier System

IA00103P56 is a high power, broadband LDMOS amplifier that operates from 1.5 MHz to 30 MHz. The power amplifier is ideal for electronic warfare and wireless applications operating under severe environmental conditions.



- Compact 4U Instrument
- Full-Modular System Architect
- 50 Ohm Input / Output impedance
- High reliability and ruggedness
- Unconditionally Stable Operation
- High Efficiency
- Adequate for AM, SSB type modulation schemes
- Internal Harmonic Filter Bank
- Internal T/R Switch
- CAN, RS422, Ethernet and LCD Controls

### Electrical Specification

Frequency	1.5-30 MHz
Output Power	400 W (Minimum over 1.5-30 MHz)
Nominal Gain	50 dB (typical)
Large Signal Gain Flatness	+/- 1 dB
Input VSWR	2.0 : 1 (max.)
Load VSWR for Survival	$\infty$ : 1
Harmonics and Spur. Level	>60 dBc
IMD Level	>25 dBc (@ Pout <sub>PEP</sub> =400 Watt)
Power Consumption	<1.500 watt (@ Pout=400 W)
DC Supply Voltage	36 V, 24 V, 12V and 5 V (2U, 220V AC/DC Power Supply is Available)
RF In / Antenna/Receiver Connectors	N Female / N Female/N Female





### Environmental Specifications

Operating temperature	-30 /+55 C
Storage temperature	-40 /+85 C
Vibration	MIL-STD-810F Method 514.5
Shock	MIL-STD-810F Method 516.5
Altitude	Max. 3000 m.
Humidity	Max. 95% Non-Condensing

### Mechanical Specifications

Size (WxDxH)	238.5 x 193.6 x 65 mm
Weight	3.000 gr.
Cooling	Air-Forced

#### Dimensions:

