CRANE AEROSPACE & ELECTRONICS

KELTEC
A Crane Co. Company

PS77047
Multi-Beam
High Voltage Power Supply

DESIGN FEATURES

- Drives up to 24 Mini-TWTs
- Solid-State Switches for High Reliability
- Individual TWT Helix Current Protection
- Switching Time less than 1 micro-second
- Extremely Low Delivered Energy in case of TWT Arc
- Distribution Unit and TWTs can be located up to 60 feet from Power Supply
- Full Military Shipboard Environment

Electrical / RF Specifications

Prime Power .....115/200 VAC, 400 Hz, 3-Phase
Power Consumption.....TWT dependent, up to ~7.3 kW with 50 W TWTs
Heater Voltage ..... 6.3 ± 0.3 VAC
Heater Time Delay.....120 sec.
Cathode Voltage .....3750 to 4250 VDC
Helix Current .....0 to 15 mA per TWT
Beam Current .....0.16 A, max, per TWT
Collector Voltage ..... 1900 VDC, nom.
Frequency Range .....6.0 to 8.0 GHz, typ.

Mechanical Specifications

Distribution Unit ..... 16.88" x 3.81" x 10.5"
Power Supply ..... 7.5" x 7.78" x 19.56"

Environmental Specifications

Operating Temperature:
Distribution Unit ..... -28 to +55°C
Power Supply ..... 0 to +50°C
Humidity ..... Up to 100%, including condensation
Mechanical Shock:
Distribution Unit ..... 50 g, peak
Power Supply ..... 30 g, peak
Vibration ..... Typical for Shipboard Operation
Altitude:
Operating ..... Sea Level
Non-operating ..... 50,000 ft.

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE