



The MP4500/3G/45MK-D-A-R3U15 is a DUAL high power amplifiers system for 3000 - 6000 MHz frequency band. The amplifier system employs GaN devices and provides high efficiency, broad band and high dynamic range, protected against over-temperature, over driving, over-power and excessive current draw.

Model: MP4500/3G/45MK-D-A-R3U15

1. Electrical Characteristics

| Item | Value | Note |
|-----------------------------|--|-------------------------------|
| Frequency Range | 3000 ~ 6000 MHz | PA1 & PA2 |
| Gain | 45 dB (Min.) | @ 30 Watts Output |
| Gain Flatness | ± 2.0 dB (Typ.) | |
| Output Psat | + 44.8 dBm (Min.) | |
| Input / Output VSWR | 1.5:1 (Max.) | |
| Harmonics | - 15 dBc (Max.) | @ 30 Watts Output |
| Spurious | - 70 dBc (Max.) | @ 30 Watts Output |
| Efficiency | > 25% | @ 30 Watts Output |
| HPA Enable/Disable | TTL Low or Open: Enable TTL High: Disable | |
| Temperature Monitor | Vt+ 500mV, 10 mV / °C | Pin 1 |
| Total Current Monitor | 100mV/A | Pin 2 |
| Over Temperature Protection | Shutdown @ +80 ± 5°C | Auto Recover @ +70°C ± 5°C |
| PA1 & PA2 Current Alarm | LED Indication | Front Panel |
| Over Temperature Alarm | LED Indication | Front Panel |
| Fan Fail Alarm | LED Indication | Front Panel |
| PA1 & PA2 VSWR Alarm | If reflected Power ≥ 38 ± 1.0 dBm LED Indication | Front Panel |
| Max RF Input | +5 dBm | |
| AC Input | 100 – 240 VAC | Single Phase |
| Power Consumption | 360 Watts (Max.) | @ 2 x 30 Watts Output |
| Input / Output Impedance | 50 Ω | |
| Load Mismatch Handling | ∞:1 | Isolator Included |

2. Mechanical Characteristics

| | | |
|---------------------|----------------|---------|
| Interface Connector | DB9-Male | |
| RF IN/OUT Connector | N-Type Female | J1 ~ J4 |
| Dimensions | 19" x 3U x 15" | |
| Weight | 25 lbs | |

3. Environment Characteristics

| | Min. | Typ. | Max. |
|--------------------------------------|--|------|------|
| Operating Ambient Temperature (°C) | -10 | | +50 |
| Non-operating Temperature (°C) | -20 | | +85 |
| Relative Humidity (% Non Condensing) | | | 95 |
| Cooling | Internal Forced Fan From Front to Back | | |

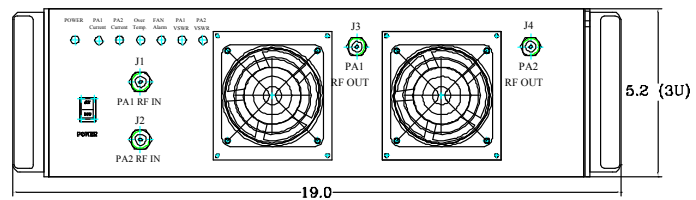
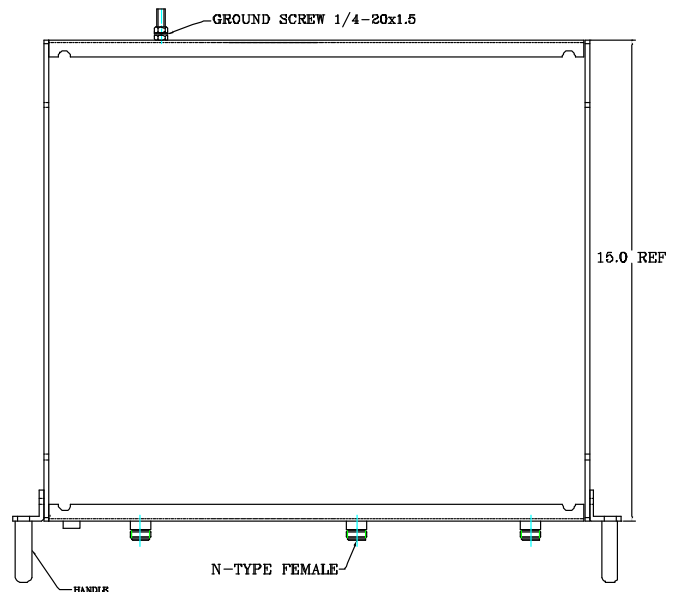
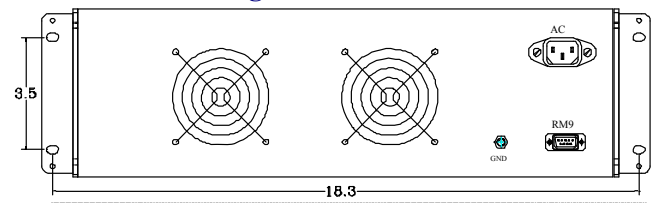
Revision History

| REV | Reason to Change | Date | Initialed by |
|-----|---------------------|----------|--------------|
| | Production Approved | 12/02/17 | Y.Z |

5. DB9-Male Pin Description

| | | |
|------------|----------------------|--|
| 1 | Temperature Sensor | |
| 2 | Total Current Sensor | |
| 3 | GND | |
| 4 | PA1 Enable/Disable | TTL Low or Open: Enable TTL High: Disable |
| 5 | PA2 Enable/Disable | TTL Low or Open: Enable TTL High: Disable |
| 6, 7, 8, 9 | NC | |

6. Outline Drawing



SKU # 9200040

Options Included: (R3U15), (FPPS), (RM9), (LEDF), (12V1), (N/N), (SNF)