

# MTPA 47... 57GHz

## Wideband GaN Amplifiers



### STANDARD MODELS

| Model      | Frequency Range<br>GHZ   | Output Power<br>min / max / typ<br>W             | Input Power<br>max<br>dBm                 | Small Signal<br>Gain<br>min / typ<br>dB | Gain Flatness<br>typ / max<br>dB | Gain Adj<br>max<br>dB               | Input VSWR<br>typ / max |
|------------|--------------------------|--|---|---|----------------------------------|-------------------------------------|-------------------------|
| MTPA4757-2 | 47 ...57                 | 2/2.2/2.1  | 5   | 30/35                                   | ±2/±3                            | NA                                  | 2/2.5                   |
| Model      | Output VSWR<br>typ / max | 2nd Harmonic<br>Power @ Pout<br>typ / max<br>dBc | 3rd Harmonic<br>Power@ Pout<br>max<br>dBc | Spur @ Pout<br>typ / max<br>dBc         | IM3<br>typ / max<br>dBc          | Noise Floor<br>typ / max<br>dBm/MHz | Stability<br>yes / no   |
| MTPA4757-2 | 2/3                      | -15/-10  | -10                                       | -65/-60                                 | NA                               | -45/-40                             | Y                       |
| Model      | VSWR Load                | Line Power<br>VA                                 | Dimensions<br>(H, D)<br>19"-System        | Weight<br>typ<br>kg                     |                                  |                                     |                         |
| MTPA4757-2 | 3                        | 50   | 2HU,19 "                                  | 6                                       |                                  |                                     |                         |

1 HU = 44.45 mm

### STANDARD SPECIFICATIONS

|                       |                             |
|-----------------------|-----------------------------|
| Overdrive Protection: | up to +10 dBm for no damage |
| Input Impedance:      | 50 Ohm nominal              |
| Output Impedance:     | 50 Ohm nominal              |
| Noise Figure:         | 20 dB max.                  |
| Class of Operation:   | AB-linear                   |

### GENERAL

|                      |  |
|----------------------|--|
| RF Input:            | SMA-f/N-f; standard on front panel           |
| RF Output:           | SMA-f/N-f; standard on front panel           |
| Mains Supply:        | <50 VA                      200 ... 240 V AC |
| Power Meter:         | via status display                           |
| Elapsed Time Meter:  | via status display                           |
| Ambient Temperature: | 0 ... +45 °C                                 |
| Storage Temperature: | -20 ... +65 °C                               |

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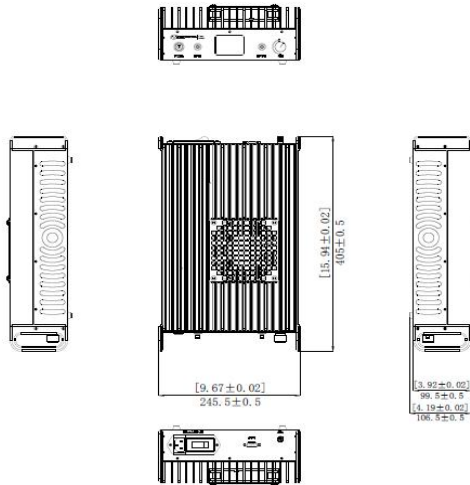
## Wideband GaN Amplifiers



Relative Humidity: up to 95% (non-condensing)  
Operating Altitude: up to 2000 m above sea level  
Vibration and Shock: normal laboratory environment  
Cooling: forced air with integral blower  
air intake and exhaust at rear

### OPTIONS

- A) Forward & Reverse Monitor
- B) External Dual Directional Coupler
- C) IEEE-488.2 GPIB Remote Control
- G) Output isolation
- L) LAN Remote control
- M) 115 V AC / 47 ... 63 Hz
- N) Harmonic Filter
- R) RS-232C Remote Control
- U) USB Remote Control



2HU