

300 W CW Hub-Mount TWTA

RF Output Power From 6.0 to 18.0 GHz

Provides 265 W of CW power at the flange.

Easy to Use and Versatile

Extensive diagnostic capability. Automatic output power control. Time stamped event log. Automatic filament shutdown. Manual override control. Dual communications interfaces. Continuous RF attenuator adjustment in 0.1 dB steps.

Ruggedly Built

Meets MIL-STD-810E.

Global Applications

Meets International Safety Standard EN61010 and Electromagnetic Compatibility 2004/108/EC.

Worldwide Support

Backed by over 35 years of satellite communications experience, and CPI's worldwide 24-hour customer support network that includes more than 20 regional factory service centers.



Model TE03MO-C

300 watt M-band TWTA
for EMC/EMI Test Applications

OPTIONS

- RF Input Attenuator
- Gain Variation Equalizer
- Integral Linearizer
- Mounting Configurations
- Low Gain (remove SSIPA)
- Others Available Upon Request
- Ethernet Interface



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300 W M-Band Hub Mount TWTA

| Specification | Model TE03MO-C | |
|-----------------------------|--|-----------------|
| Frequency | 6.0 to 18.0 GHz or 6.5 to 18.0 GHz | 7.5 to 18.0 GHz |
| Output Power (min.), TWT | 300 W CW | 300 W CW |
| Output Power (min.), Flange | 265 W CW | 270 W CW |
| Bandwidth | 12.0 or 11.5 GHz | 10.5 GHz |
| Gain | 53.5 dB typ. at rated power output; 55.5 dB typ. at small signal | |
| RF Level Adjust Range | 0 to 20 dB | |
| Gain Stability | ±0.25 dB/24 hr max. (after 30 minute warmup and at constant drive and temperature) | |
| Gain Variation | 13 dB pk-pk max. (6 dB pk-pk with optional gain variation equalizer) | |
| VSWR | Input | 2.0:1 max. |
| | Output | 2.5:1 typ. |
| | Load | 2.0:1 max. |
| Residual AM | -50 dBc below 10 kHz; -20[1.3 + log F (kHz)] dBc, 10 kHz to 500 kHz; -85 dBc above 500 kHz | |
| Phase Noise | Meets IESS 308/309 with 3 dB margin | |
| Noise and Spurious | -50 dBc typ. excluding harmonics | |
| Harmonic Content | -5 dBc max. | |
| Prime Power | 100 to 264 VAC single phase, 2 wire, 47 to 63 Hz | |
| Power Consumption | 1900 VA nom. | |
| Inrush Current | 200% | |
| Operating Temperature | -40°C to +50°C (derate by 1.9°C per 1,000 ft. above sea level) | |
| Non-Operating Temperature | -50°C to +70°C | |
| Relative Humidity | 100% condensing | |
| Operating Altitude | 10,000 ft above sea level (3,048 m) | |
| Non-Operating Altitude | 50,000 ft above sea level (15,240 m) | |
| Vibration | MIL-STD-810E, Method 514.4, Procedure 1, Category 1 | |
| Shock | 10 g, 11 ms half sine | |
| Acoustic Noise | <68 dBA max. at 1 meter | |
| Air Flow | 100 cfm | |
| Cooling | Forced air, 2.0" clearance required | |
| Input RF Connector | Type N Female | |
| Output RF Connector | WRD-650 | WRD-750 |
| Dimensions | 10.2" H x 12.4" W x 22.0" L (258 x 315 x 559 mm) | |
| Weight | 63 lbs (28.6 kg) nom. | |