

DS7TMA(D) / DS8TMA(D) Series Dual Amp Tower Top Amplifier System (700/800 MHz)

dbSpectra

ELECTRICAL SPECIFICATIONS

| | |
|-----------------------------------|---|
| Frequency Range | See Ordering Information |
| TTA Gain (typical) | 21 dB |
| TTA System Noise Figure (typical) | 3 dB |
| System Input IP3 | +15 dBm min |
| Return Loss (typical) | 14 dB |
| Test Port Coupling (typical) | 30 dB |
| Power Supply Input (nominal) | 18 and 24 VDC |
| Operating Current (typical) | 600 mA |
| Surge Suppression | 18 KA ANSI C62.1, 8/20 waveform, 110 joules |

LNA SPECIFICATIONS

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|------------------|---|
| Type | Quadrature Coupled Redundant Amps (A & B) |
| Dual Redundancy | Two independent amps with automatic backup amplifier switching |
| Amplifier Bypass | Automatic or manual bypass of amps in case of amp alarms or power failure |
| LNA Gain | 30 dB |
| LNA Noise Figure | 0.8 dB |

FILTER SPECIFICATIONS

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|------------------|---|
| Filter Bandwidth | See Frequency Range in Ordering Information |
| Filter Isolation | > 120 dB @ 851-869 MHz and 763-776 MHz |

MECHANICAL SPECIFICATIONS

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|---------------------------|--|
| Construction | Aluminum; OPTIONAL: SS304 Stainless 11 gauge with 0.120" thickness |
| Environmental / Finish | Weatherproof canister, UV protected, powder coat white |
| RX Antenna Connector | TMA models – N (F); TMD models – DIN (F) |
| RX Output Connector | TMA models – N (F); TMD models – DIN (F) |
| Test Port Input Connector | TMA models – N (F); TMD models – DIN (F) |
| Temperature Range | -30° C to +60° C |
| Mounting Hardware | DB380 clamps for up to 3.5" OD pipe |

DIMENSIONS

| | |
|------------------------------------|----------------------|
| Width | 9 in (228.6 mm) |
| Height | 21.25 in (539.75 mm) |
| Depth | 13.25 in (336.55 mm) |
| Weight (Aluminum Enclosure) | 21 lbs (9.5 kg) |
| Weight (Stainless Steel Enclosure) | 45 lbs (20.5 kg) |



FEATURES AND BENEFITS

- Dual redundant quadrature coupled LNAs
- Automatic bypass of LNA in event of LNA alarm condition or loss of power
- Provides more than 120 dB of isolation at the 700 and 800 MHz TX carrier bands. Prevents high level carriers from entering the receive system to ensure optimum receive sensitivity performance
- Narrowband frequency models available to further protect receivers
- Heavy duty weatherproof aluminum enclosure. SS304, 11 gauge stainless steel option available
- Test port standard for accurate RX sensitivity testing

ORDERING INFORMATION

| Model with N (F) connectors* | Model with DIN (F) connectors* | Frequency Range |
|------------------------------|--------------------------------|-----------------|
| DS7TMA31 | DS7TMD31 | 793-824 MHz |
| DS7TMA-17 | DS7TMD-17 | 799-816 MHz |
| DS7TMA-6 | DS7TMD-6 | 799-805 MHz |
| DS8TMA-10 | DS8TMD-10 | 806-816 MHz |
| DS8TMA-3 | DS8TMD-3 | 806-809 MHz |

*Optional Stainless Steel Enclosure Available.
(Add "-S" to end of model number)