

NEW Compact, Low-Noise Amplifiers 0.5 GHz to 20.0 GHz

- ✓ **Low-Noise**
- ✓ **Wide Dynamic Range**
- ✓ **Low-Cost, Small Compact Size (AM Series)**
- ✓ **Drop-In Configurations Available**
- ✓ **Frequency Coverage from 0.5 GHz to 20.0 GHz**



CTT introduces a new line of lownoise solid-state amplifiers for a wide range of applications in narrowband and wideband frequencies through 20 GHz. The new "M" series LNAs are based on GaAs pHEMT devices with input and output impedance matching.

These LNAs offer a blend of good noise-figure performance and wide dynamic range.

The new amplifiers are designed for +12 to +15 VDC operation and are ideal for many portable and battery-powered systems.

The LNAs are available with or without SMA connectors.

| Broadband AM Series Model Number | Frequency Response (GHz) | Gain (dB) | Gain Flatness (±dB) | Noise Figure (dB) | P1dB (+dBm) | VSWR In/Out | Volts (DC) | DC Current (mA) | Case |
|--|--------------------------------|--------------|---------------------------|-------------------------|----------------|----------------|---------------|--------------------|------|
| | Min | Min | Max | Max | Min | Max | Typ | Typ | |
| AMM/020-1015 | 0.5-2.0 | 15 | 1.00 | 1.0 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMM/020-1022 | 0.5-2.0 | 22 | 1.00 | 1.0 | 10 | 2:1 | 12-15 | 120 | M5 |
| AMM/020-1030 | 0.5-2.0 | 30 | 1.25 | 1.0 | 10 | 2:1 | 12-15 | 200 | M5 |
| AMM/020-1515 | 0.5-2.0 | 15 | 1.00 | 1.5 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMM/020-1522 | 0.5-2.0 | 22 | 1.00 | 1.5 | 10 | 2:1 | 12-15 | 120 | M5 |
| AMM/020-1530 | 0.5-2.0 | 30 | 1.25 | 1.5 | 10 | 2:1 | 12-15 | 200 | M5 |
| AMO/040-1516 | 2-4 | 16 | 1.00 | 1.5 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMO/040-1524 | 2-4 | 24 | 1.25 | 1.5 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMO/040-1532 | 2-4 | 32 | 1.50 | 1.5 | 10 | 2:1 | 12-15 | 200 | M5 |
| AMO/040-1816 | 2-4 | 16 | 1.00 | 1.8 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMO/040-1824 | 2-4 | 24 | 1.25 | 1.8 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMO/040-1832 | 2-4 | 32 | 1.50 | 1.8 | 10 | 2:1 | 12-15 | 200 | M5 |
| AMM/080-2216 | 2-8 | 16 | 1.00 | 2.2 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMM/080-2224 | 2-8 | 24 | 1.25 | 2.2 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMM/080-2232 | 2-8 | 32 | 1.50 | 2.2 | 10 | 2:1 | 12-15 | 200 | M5 |
| AMO/080-1518 | 4-8 | 18 | 1.00 | 1.5 | 6 | 2:1 | 12-15 | 80 | M4 |
| AMO/080-1526 | 4-8 | 26 | 1.00 | 1.5 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMO/080-1534 | 4-8 | 34 | 1.25 | 1.5 | 10 | 2:1 | 12-15 | 180 | M5 |
| AMX/00510-2516 | 0.5-10 | 16 | 1.00 | 2.5 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMX/00510-2524 | 0.5-10 | 24 | 1.25 | 2.5 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMX/00510-2532 | 0.5-10 | 32 | 1.50 | 2.5 | 10 | 2:1 | 12-15 | 200 | M5 |
| AMW/120-1518 | 8-12 | 18 | 1.00 | 1.5 | 6 | 2:1 | 12-15 | 80 | M4 |
| AMW/120-1526 | 8-12 | 26 | 1.00 | 1.5 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMW/120-1534 | 8-12 | 34 | 1.25 | 1.5 | 10 | 2:1 | 12-15 | 180 | M5 |
| AMW/120-1818 | 8-12 | 18 | 1.00 | 1.8 | 6 | 2:1 | 12-15 | 80 | M4 |
| AMW/120-1826 | 8-12 | 26 | 1.00 | 1.8 | 8 | 2:1 | 12-15 | 120 | M5 |
| AMW/120-1834 | 8-12 | 34 | 1.25 | 1.8 | 10 | 2:1 | 12-15 | 180 | M5 |
| AMX/00518-3515 | 0.5-18 | 15 | 2.00 | 3.5 | 8 | 2.5:1 | 12-15 | 80 | M4 |
| AMX/00518-3522 | 0.5-18 | 22 | 2.00 | 3.5 | 8 | 2.5:1 | 12-15 | 140 | M5 |
| AMX/00518-3530 | 0.5-18 | 30 | 2.50 | 3.5 | 10 | 2.5:1 | 12-15 | 200 | M5 |
| AMX/0218-3515 | 2-18 | 15 | 2.00 | 3.5 | 8 | 2.5:1 | 12-15 | 80 | M4 |
| AMX/0218-3522 | 2-18 | 22 | 2.00 | 3.5 | 8 | 2.5:1 | 12-15 | 140 | M5 |
| AMX/0218-3530 | 2-18 | 30 | 2.50 | 3.5 | 10 | 2.5:1 | 12-15 | 200 | M5 |
| AMM/180-3016 | 6-18 | 16 | 1.00 | 3.0 | 8 | 2:1 | 12-15 | 80 | M4 |
| AMM/180-3024 | 6-18 | 24 | 1.00 | 3.0 | 10 | 2:1 | 12-15 | 120 | M5 |
| AMM/180-3032 | 6-18 | 32 | 1.50 | 3.0 | 10 | 2:1 | 12-15 | 180 | M5 |
| AMX/0220-4510 | 2-20 | 10 | 2.00 | 4.5 | 8 | 2.5:1 | 12-15 | 80 | M4 |
| AMX/0220-4520 | 2-20 | 20 | 2.00 | 4.5 | 8 | 2.5:1 | 12-15 | 140 | M5 |
| AMX/0220-4530 | 2-20 | 30 | 2.50 | 4.5 | 10 | 2.5:1 | 12-15 | 200 | M5 |

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