



FAA Approved Facility

P/N: 2GXXXXAMPXX-XT-XT (0.005-3.0) GHz (3 to 24)Volts LNA

P/N: 2G0105AMP12-XT-XT (0.1-0.5) MHz; 12dB, NF = 3dB, 12Volts LNA;

P/N: 2G1725AMP25-XS-3S-2DBNF (1.7-2.5) GHz, 25 dB, NF = 2dB;

P/N: 2G4460AMP12-XT-XT, (4.4-6.0) GHz, 12dB, NF = 3dB, 12Volts LNA;

P/N: 2G07180AMP26-XT-XT, (0.7-18) GHz, 26dB, NF = <6dB, 12Volts LNA;

P/N: 2G0160AMP12-XT-XT, (0.1-6) GHz; 12dB, NF = 3dB, 12Volts LNA

P/N: 2G1760AMP12-XT-XT, (1.7-6) GHz; 12dB, NF = 3dB, 12Volts LNA;

P/N: 2G4460AMP20-XT-XT (4.4-6.0) GHz, 20dB, NF = 3dB, 12Volts LNA

P/N: 2G60180AMP24-XT-XT (6.0-18) GHz, 24dB, NF = <6.5dB, 5Volts LNA

Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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SPECIFICATIONS

ELECTRICAL: 2G1760AMP12-XS-3S (0.1-6) GHz

| | | | | | |
|-------------------|------------------------|-------------------|-------------------|--------------------|--------------------|
| P/N: | 2GXXXXAMPXX-XT-XT | 2G4460AMP20-XT-XT | 2G0105AMP12-XT-XT | 2G07180AMP26-XT-XT | 2G60180AMP24-XT-XT |
| FREQUENCY: | (.100 - 3.0) GHz | (4.0 - 6.0) GHz | (0.1 - 500)MHz | (0.7 - 18.0) GHz | (6.0 - 18.0) GHz |
| VSWR: | < 2:1 | < 2:1 | < 2:1 | < 2:1 | < 2:1 |
| IMPEDANCE: | 50 ohms | 50 ohms | 50 ohms | 50 ohms | 50 ohms |
| LNA GAIN: | 33±2 dB | 20±2 dB | 12±2 dB | 26±2 dB | 24±2 dB |
| LNA NOISE FIGURE: | 3 dB | 3 dB | 3 dB | 3 dB | 6.5 dB |
| LNA P1dB Out: | +11 dBm | (+8 to +10) dBm | (+5 to +13) dBm | 24 dBm | 18 dBm |
| LNA DC POWER: | (+3 to 21) Volts <35mA | +12 Volts <80mA | +12 Volts <50mA | +12 Volts <400mA | +5 Volts <290mA |
| POWER HANDLING: | 1 Watt CW | | | | |

MECHANICAL:

SIZE: LENGTH=2.00 in.[50.80 mm], WIDTH=2.00 in.[50.80 mm], HEIGHT= <0.61 in.[15.47 mm]

WEIGHT: 4.00 oz. (.113 Kg)

FINISH: IRIDITE PER MIL-C-5441F

MATERIAL: 6061-T6 ALUMINUM ALLOY

CONNECTOR: SMA FEMALE (OPTIONAL: MCX, MMCX, SMA-M, TNC, TNC-M, OR N)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: >30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

Dimensions: 2.00 [50.80] (Length), 2x.23 [5.72] (Width), 4x.83 [21.05] (Height), 4x.11 [10.16] (Mounting Hole Dia), 4x.11 [10.16] (Through Hole Dia)

Labels: P/N:-1X, P/N:-2X, P/N:-3X, P/N:-14X

Ports: P1 RF Output, P2 RF Input, DC Input, DC Output

DC Connector Options: .31 [7.75], .37 [9.33] For P/N: 2GXXXXAMP-XS-3MM, .61 [15.47] For Other Part Number

| CABLE'S LENGTH: | INPUT/OUPUT CONNECTOR | Ext. DC CONNECTOR |
|----------------------|-----------------------|-------------------------------|
| X: NO CABLE | S: SMA, SM: SMA-M | S: SMA, SM: SMA-M |
| M: WITH MAG. MOUNT | M: MCX, MM: MMCX | M: MCX, MM: MMCX |
| R: CABLE LENGTH (IN) | T: TNC, TM: TNC-M | T: TNC, TM: TNC-M; N: N |
| R: RIGHT ANGLE CON. | N: N | NO CON. FOR DC OPTION 1 AND 2 |

P/N: 2G1215AMP33-XT-2T

| FREQ. BAND: | LNA GAIN: | DC OPTION: |
|-----------------------------------|----------------|---|
| 0105: (100 to 500) MHz | 12: 12 dB GAIN | 1: DC BIAS FROM RF OUTPUT PORT P1 ONLY |
| 0160: (0.1-6.0) GHz | 20: 20 dB GAIN | 2: DC BIAS FROM RF OUTPUT PORT P1 & PASS IT TO RF INPUT PORT 2 (FOR MULTIPLE INLINE AMP.) |
| 4460: (4.4-6.0) GHz | 33: 33 dB GAIN | 3: EXTERNAL DC INPUT @ PORT 3 ONLY |
| 1030: (1 to 3) GHz | | 14: DC BIAS FROM RF OUTPUT PORT P1 & PASS REG. 3V OUTPUT TO PORT 4 |
| 07180: (0.7 to 18) GHz | | 32: EXTERNAL DC INPUT @ PORT 3 & PASS IT TO RF INPUT PORT 2 (FOR MULTIPLE INLINE AMP.) |
| 00180: (6 to 18) GHz | | 324: EXTERNAL DC INPUT @ PORT 3 & PASS IT TO RF INPUT PORT 2 & REG. 3V OUTPUT TO PORT 4 |
| 15:L1 Only (with Filter) | | |
| 1215: L1/L2 Only (with Filters) | | |
| 2425: 2.4-2.5 Only (with Filters) | | |