

QDAXU



QDAXU 1000
(front view)

QDAXU 1000 Distribution Amplifier

Features

- MDU amplifier with 1000 MHz bandwidth and high level/high slope output capability
- Normally shipped with active 2-way amplification with 22 dB of gain in return path
- Forward amplifier options include GaAs power-doubled and cascaded GaAs power-doubled technology in various gain choices
- GaAs technology versions have high output level capability and a low noise figure
- Fixed EQ socket and plug-in pad socket in front end can accommodate wide range of input signal levels
- Plug-in hybrids and accessories
- No need to order pads or EQs
 - Shipped with 3 spare EQs
 - Shipped with variable input pad
- Variable gain and tilt interstage controls
- UL approved switching power supply with 100-240 VAC input range
- Plug-in interstage EQ can be used to extend output slope capability
- 5-42 MHz return bandwidth
- 2-way return path has an input test point and plug-in input pad before the amplifier. The return circuit has variable slope and gain control after amplifier
- 20 dB return path output test point can be used to set output levels
- Forward amplifier output test point can be used to insert return path carriers while monitoring the carriers signal level at the return path input test point and/or the return path output test point when setting levels
- In order to reduce heat within the amplifier housing and increase reliability, the QDAXU normally ships with a switching power supply with 100-240 VAC input and 24 VDC output. However, the QDAXU is also available with our "LP" universal line powering power supply, which has an integrated UL approved switching power supply with a convenient EIC-320 AC cord interface. LP unit ships with a 6' foot long power cord featuring a North American-style, 3-prong AC plug. Other options available upon request



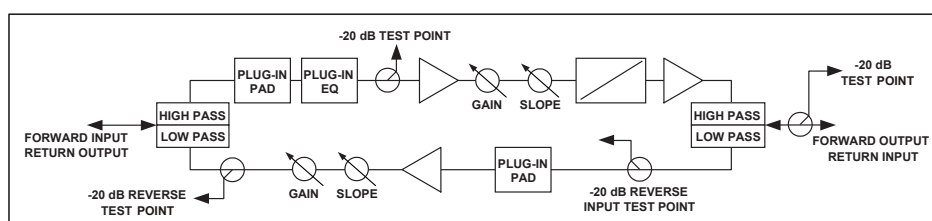
QDAXU (front view)



QDAXU (rear view)



QDAXULP (top view)



Functional Schematic

Specifications

QDAXU 1000

| | 1 GHz | RETURN AMP |
|--|---|-------------|
| | xxCGP | Low Current |
| BANDWIDTH (MHz) | 54-1000 | 5-42 |
| FREQUENCY RESPONSE | +/- 0.5 dB | +/- 0.5 dB |
| GAINS AVAILABLE (dB) | 30, 33, 35, 38, 40 | 22 |
| CHANNEL LOADING | 128 | 7 |
| RETURN LOSS (Worst Case) | 14 dB | 16 dB |
| GAIN CONTROL RANGE | 10 | 10 |
| SLOPE CONTROL RANGE | 15 | 5 |
| OUTPUT LEVELS (dBmV) | 51/41 | 50 |
| DISTORTIONS | CROSS MODULATION (-dB) | n/a |
| | COMP. TR. BT. (-dB) | 59.4 |
| | COMP. 2nd ORD. (-dB) | 63.6 |
| NOISE FIGURE | 5.3 dB | 3 dB |
| DC AMPERES @ 24 VDC | .86 | .135 |
| POWER DISSIPATION (Watts) ⁽¹⁾ | 26 | 4 |
| OPERATING TEMPERATURE | 0°C to +50°C (+32°F to +122°F) | |
| HUMIDITY | 20%-55% (without condensation) | |
| DIMENSIONS | 9.13H" x 7.0"W x 3.56"D (23.19H x 17.78W x 9.04D cm) | |
| WEIGHT | 7.5 lbs (3.4 kg) | |

NOTE:

(1) Power dissipation measured at 120V input to UL approved switching power supply. DC amperes is internal voltage regulator loaded.

Ordering Information

| Part Number | Description |
|-----------------------------|---|
| QDAXU1000-30CGP2W | 1GHz 30dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path |
| QDAXU1000-33CGP2W | 1GHz 33dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path |
| QDAXU1000-35CGP2W | 1GHz 35dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path |
| QDAXU1000-38CGP2W | 1GHz 38dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path |
| QDAXU1000-40CGP2W | 1GHz 40dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path |
| QDAXU1000LP-35CGP2W | 1GHz 35dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path, universal power supply |
| QDAXU1000LP-38CGP2W | 1GHz 38dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path, universal power supply |
| QDAXU1000LP-40CGP2W | 1GHz 40dB, Cascaded GaAs Power Doubled, 2-Way with 22DB Return path, universal power supply |
| Options & Spares | |
| MNxEQ | 1000 MHz EQs, 0-16 dB in 1 dB steps. This EQ is used in the input. Four EQs shipped with unit. |
| QPS2425 | For spare only. 100 to 240 VAC input, 24 VDC output Switching Power Supply (for units with black silk screen purchased after August 21, 2010 only). |

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