MDU Solutions®

QFNJ Fiber Node Amplifier:

Features:

▸ 200 MHz, 870 MHz & 1 GHz 1-way models

▸ Forward optical input detector will accept 1310nm or 1550nm laser inputs at a nominal 0 dBm light level for best RF performance

QFNJ200

▸ Designed to receive reverse signals in the headend hub

QFNJ870 & QFNJ1000

▸ Cost-effective, 1-way node used in receive locations where sloped output level &/or gain adjustment is not required

▸ Basic receiver with fiber input & RF output

▸ Housing provides efficient thermal capability & stringent RFI shielding

▸ Operates safely at ambient temperatures of +120⁰F (+48⁰C)

▸ Meets FCC CLI regulations

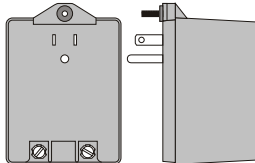▸ External Class II UL approved power transformer

QFNJ (front view)

QFNJ Specifications

SPECIFICATIONS	1-WAY		
	QFNJ Si PP		1000 MHz GaAs
BANDWIDTH	5 to 200 MHz	5 to 870 MHz	40 to 1000 MHz
FREQUENCY RESPONSE	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB
CHANNEL LOADING	26	77	77
GAIN CONTROL RANGE	n/a	n/a	n/a
SLOPE CONTROL RANGE	n/a	n/a	n/a
GAIN	n/a	n/a	n/a
OUTPUT LEVELS	26	26	31
DISTORTIONS — COMP. TR. BT. (-dB)	107	94	100
DISTORTIONS — COMP. 2nd ORD. (-dB)	91	84	85
CARRIER TO NOISE (dB)	53	53	53
RETURN LOSS (Worst Case)	15 dB	15 dB	15 dB
DC AMPERES @ 24 VDC	0.20	0.22	0.22
POWER DISSIPATION (Watts)[1]	7	9	9

NOTES:
All forward node specifications are based on 1 mW (0 dBm) optical power input with 3.7% OMI per channel.
(1) Power dissipation is measured at 120 VAC. Multiple gain models show minimum specifications, call for exact data.

QFNJ Fiber Node Amplifier:

Ordering Information

Example Part Number: QFNJ<u>200</u> <u>A</u> <u>26</u> 1W
1 2 3

1: Frequency Range:	1000 = 1000 MHz
	870 = 870 MHz
	200 = 200 MHz
2: Connector Type:	A = SC/APC
	F = SC/UPC
3: Ouput Level (See Specifications Table)	

Part Number	Description
Options & Spares	
EPS 267-ND	External Universal AC Power Supply, 100-240 VAC, 47-63 Hz Input, 24 VDC Output
#951	120 to 26 VAC, 60 Hz AC Power Transformer, 50 VA Rating

#951 Transformer

Shipping Weight	7.5 lbs (3.40 kg)
Dimensions	9.125"H x 7.0"W x 3.562"D (23.18H x 17.78W x 9.05D cm)

Specifications subject to change without notice.

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