



QDE-Jr Distribution & Drop Amplifier:

Features:

- ▶ Single-hybrid RF amplifier configured to serve house drop or low-power distribution amplifier application
- ▶ Push-pull technology to 860 MHz
- ▶ Cost-effective, 1-way or 2-way amplifier
- ▶ 2-way versions include passive return path with 2 dB loss or may have optional plug-in transistor return amplifier with 20 dB of gain
- ▶ 5-30 or 5-40 MHz return path
- ▶ Fixed-tuned with full range of pads & EQs
- ▶ Gains: 17, 21, 25 or 32 dB
- ▶ Test points are -30 dB at the input & output of the 25 & 32 dB gain models to monitor signal levels
- ▶ 1-way, sub return models for headends available from 5-50 Mhz or 5-200 MHz with gains of 17, 21, 23, & 28 dB
- ▶ One model includes internal 45 MHz low-pass filter for I.F. or lower frequency specialty applications
- ▶ Housing provides efficient thermal capability & stringent RFI shielding
- ▶ Operates safely at ambient temperatures of +120°F (+48°C)
- ▶ Meets FCC CLI regulations
- ▶ Includes external class II UL approved power transformer

750 MHz Jr

- ▶ 32 dB gain incorporates 860 MHz hybrid in our standard 750 MHz chassis
- ▶ Flatness & return loss above 750 MHz are diminished from normal 750 MHz parameters
- ▶ Model performs better than low-cost transistor 1 GHz amplifiers
- ▶ Higher gain of this model limits CTB performance for higher channel loading
- ▶ The low-gain models are recommended for high channel loading performance


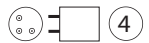
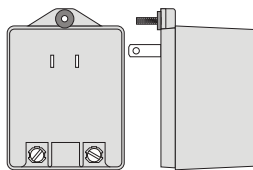


QDE-Jr Specifications

SPECIFICATIONS	QDE-Jr Sub*		QDEJ450	QDEJ550	QDEJ750	QDEJ860		
BANDWIDTH (MHz)	5 to 45	5 to 200	40* to 450	40* to 550	40* to 750	40* to 860		
FREQUENCY RESPONSE	+/- 1.0 dB	+/- 1.0 dB	+/- 1.0 dB	+/- 1.0 dB	+/- 1.0 dB	+/- 2.0 dB		
GAIN CONTROL RANGE	PAD	PAD	PAD	PAD	PAD	PAD		
SLOPE CONTROL RANGE	n/a	n/a	EQ	EQ	EQ	n/a		
RETURN LOSS	16 dB	16 dB	16 dB	16 dB	14 dB	14 dB		
TEST POINTS (-30 dB, +/- 1 dB)	n/a	n/a	No (Yes)	No (Yes)	No (Yes)	No	Yes	
OUTPUT LEVELS (dBmV Flat)	48	48	43	40	40	38	40	
INPUT/OUTPUT FILTERS (MHz)	LPF(50)	n/a	30,40**	30,40**	30,40**	30,40**	30,40**	
GAINS AVAILABLE (dB)	17,20	17,21	17,(32)	13,17,21,(25,32)	17,21,23	17,21	28,32	
CHANNEL LOADING	4	26	60	77	110	128	49	
DISTORTIONS	CROSS MOD. (-dB)	79	63	64	65	58	68	66
	COMP. TR. BT. (-dB)	86	70	65	64	58	62	67
	COMP. 2nd ORD. (-dB)	n/a	n/a	63	61	54	63	59
NOISE FIGURE	6.0 dB	5.5 dB	7.0 dB	7.5 dB	8.5 dB	9.0 dB	9.0 dB	
DC AMPERES @ 24 VDC	.22	.22	.22,(.34)	.22,(.34)	.22	.22	.34	
POWER DISSIPATION (Watts) ⁽¹⁾	12	12	12,(16)	12,(16)	12	12	16	
NOTES:								
Test points are not available on one-way amplifiers with gain below 22 dB. All two-way models may be ordered with or without test points. All models with gain of 25 dB or more have test points included.								
Composite Triple Beat (CTB) and Cross Modulation specifications are given for two-way models. Add 1 dB for one-way amplifiers. (Two-way amp CTB is -65 dB, same hybrid in one-way amplifier has -66 dB CTB performance.)								
* Lower limit of forward bandwidth for one-way models. Two-way bandwidth will be 50 MHz to model upper limit.								
** The return bandwidth is 5 to 30 MHz. Special orders for 5 to 40 MHz require minimum quantity order.								
(1) Power dissipation at 120 VAC.								

QDE-Jr Distribution & Drop Amplifier:

Ordering Information

Example Part Number: QDEJ 750 - 32 2W /2					
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1	2	3	4		
1: Upper Frequency Limit:	45 = 5 to 45 MHz 200 = 200 MHz 550 = 550 MHz 750 = 750 MHz 860 = 860 MHz				
2: Gain (See Specifications Table)					
3: Amplifier Configuration:	2W = 2-Way Blank = 1-Way				
4: Test Point Options:	/2 = with Test Point /1 = without Test Point				
Part Number	Description				
Options & Spares					
QDERA-20	20 dB Return Amplifier				
QEJ-xxx-xx	Forward EQ Value in MHz and dB Ratings				
					
SXP-**	Plug-in Attenuator Pads, ** = 0-20 dB in 1 dB steps				
	SXP Pads 				
#952	120/24V, 35 VA Power Transformer				
#953	120/24V, 20 VA Power Transformer				
	#953, 20 VA Transformer 				
Shipping Weight	3.0 lbs (1.36 kg)				
Dimensions	4.75"H x 5.0"W x 2.26"D (12.07H x 12.7W x 5.74D cm)				

Specifications subject to change without notice.

