

# Coaxial Pulse Amplifier

## ZPUL-30P

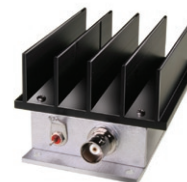
50Ω Non-Inverting 0.0025 to 700 MHz

### Features

- wide bandwidth 2.5 kHz to 700 MHz, useable to 1000 MHz
- excellent flatness, ±0.6 dB typ.
- can handle wide pulse width & (15μs typ.) with excellent rise/fall time (1.1 ns typ.)
- delay time, 1.5 ns typ.
- protected by US Patent, 6,943,629

### Applications

- computers
- digital communication
- medical test set-ups



CASE STYLE: S32			
Connectors	Model	Price	Qty.
BNC	ZPUL-30P	\$295.00 ea.	(1-9)

### Pulse Amplifier Electrical Specifications

MODEL NO.	FREQUENCY (MHz)		GAIN (dB)		RISE/FALL TIME (ns)	PULSE WIDTH* (μs)	MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR (:1) Typ.		DC POWER	
	f <sub>L</sub>	f <sub>U</sub>	Min.	Flatness Max.			Output (1 dB Compr.)	Input (no damage)	NF** (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZPUL-30P	0.0025	700	29	±1.0	1.5	6	+22***	+10	7.2	+34	2.0	2.0	24	400

\* Pulse width for less than 10% droop.

\*\* Noise Figure tested above 10 MHz.

Open load is not recommended, potentially can cause damage. With no load derate max input power by 20 dB

\*\*\* For 500-700 MHz, +20.5 dBm

### Maximum Ratings

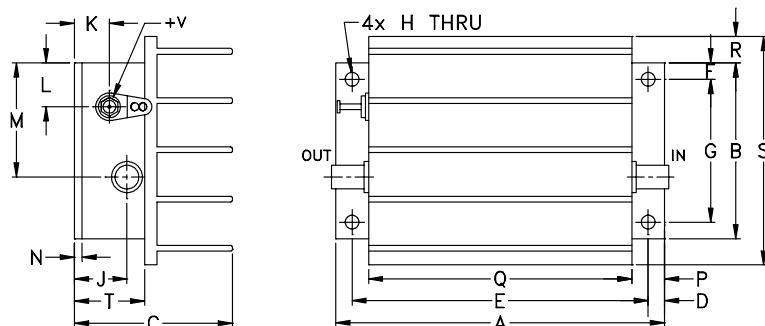
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

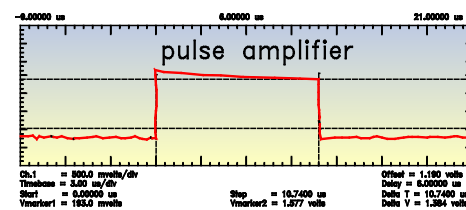
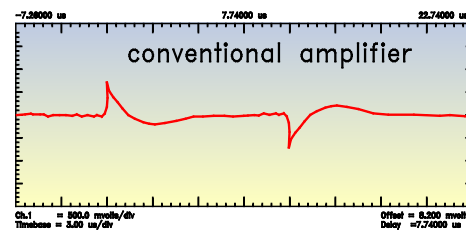
DC Voltage +24.5V Max.

Permanent damage may occur if any of these limits are exceeded.

### Outline Drawing



### typical amplifier response to a pulse input



### Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt
3.75	2.00	1.80	.19	3.375	.19	1.625	.144	.50	.40	.50	1.30	.10	.38	3.00	.30	2.60	.80	grams
95.25	50.80	45.72	4.83	85.73	4.83	41.28	3.66	12.70	10.16	12.70	33.02	2.54	9.65	76.20	7.62	66.04	20.32	220.0



For detailed performance specs & shopping online see web site

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IF/RF MICROWAVE COMPONENTS

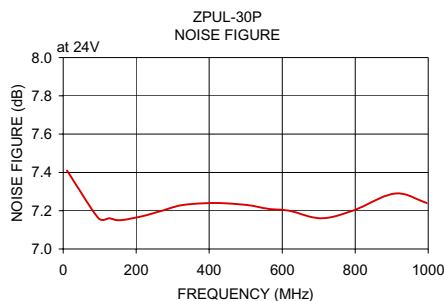
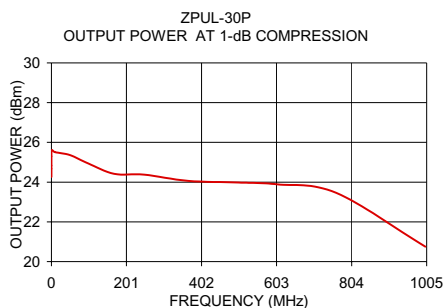
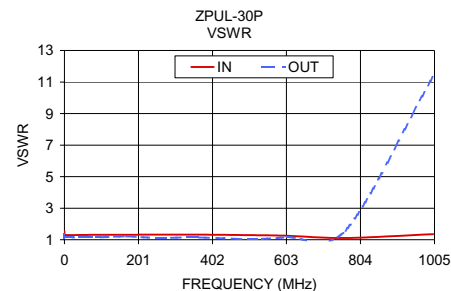
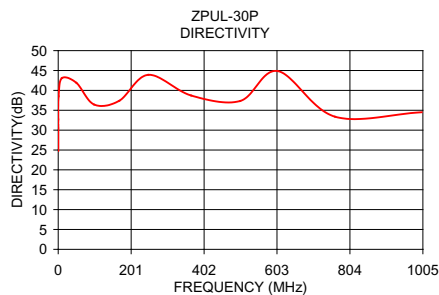
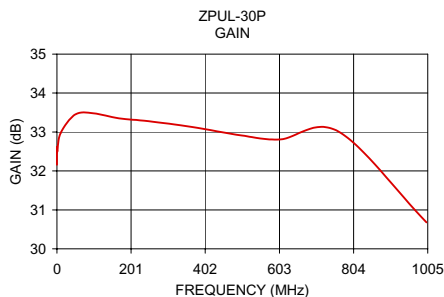
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# Typical Performance Data/Curves

# ZPUL-30P

FREQUENCY (MHz)	GAIN (dB)	DIRECTIVITY (dB)	VSWR (:1)		POUT at 1 dB COMPR. (dBm)	FREQUENCY (MHz)	NOISE FIGURE (dB)
	24V	24V	IN	OUT	24V		24V
0.0025	32.16	31.30	1.53	1.39	24.26	10.00	7.41
0.01	32.60	24.83	1.32	1.17	24.67	97.00	7.16
0.05	32.49	30.45	1.30	1.15	24.83	126.00	7.16
0.12	32.47	32.68	1.31	1.14	25.30	155.00	7.15
1.11	32.51	38.52	1.30	1.14	25.61	213.00	7.17
10.17	32.98	43.08	1.29	1.14	25.51	271.00	7.20
50.00	33.45	41.90	1.30	1.15	25.36	329.00	7.23
98.88	33.48	36.43	1.31	1.15	24.94	416.00	7.24
167.88	33.35	37.37	1.31	1.21	24.42	503.00	7.23
248.38	33.28	43.92	1.32	1.12	24.38	561.00	7.21
366.25	33.13	38.72	1.32	1.14	24.06	619.00	7.20
501.38	32.91	37.33	1.29	1.04	23.98	706.00	7.16
604.79	32.81	44.85	1.25	1.16	23.89	793.00	7.20
763.00	33.01	33.38	1.11	1.57	23.46	909.00	7.29
1001.63	30.68	34.50	1.35	11.38	20.75	996.00	7.24



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