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_L	f_U	Min.	Flatness Max.	Max.	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

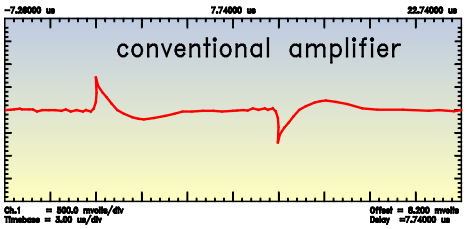
*** For 500-700 MHz, +20.5 dBm

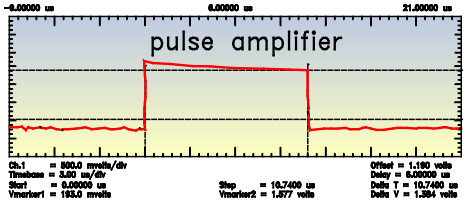
Maximum Ratings

Operating Temperature	-20°C to 65°C
Storage Temperature	-55°C to 100°C
DC Voltage	+24.5V Max.

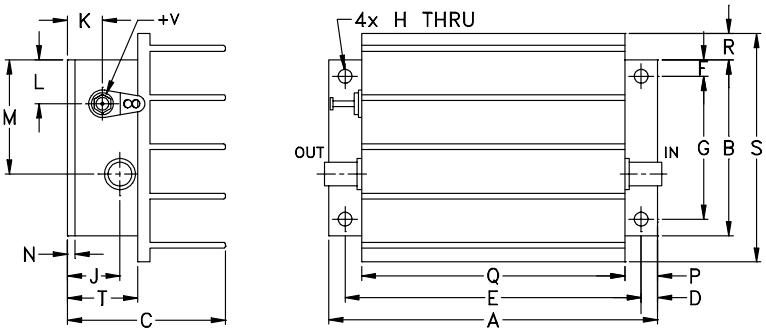
Permanent damage may occur if any of these limits are exceeded.

typical amplifier response to a pulse input





Outline Drawing



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

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