

Coaxial Pulse Amplifier

ZPUL-21

50Ω Inverting 0.0025 to 700 MHz

Features

- wideband, 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 typical
- protected by US Patent, 6,943,629

Applications

- computers
- digital communication
- medical test set-ups



CASE STYLE: S32

Connectors	Model	Price	Qty.
BNC	ZPUL-21	\$249.00 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.	Max.			Output (1 dB Compr.)	Input (no damage)	NF** (dB) Typ.	IP3 (dBm) Typ.	In	Out	Volt (V) Nom.	Current (mA) Max.
ZPUL-21	0.0025	700	21	±1.0	1.5	6	+22	+10	7.3	+34	2.0	2.0	24	350

* 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

Maximum Ratings

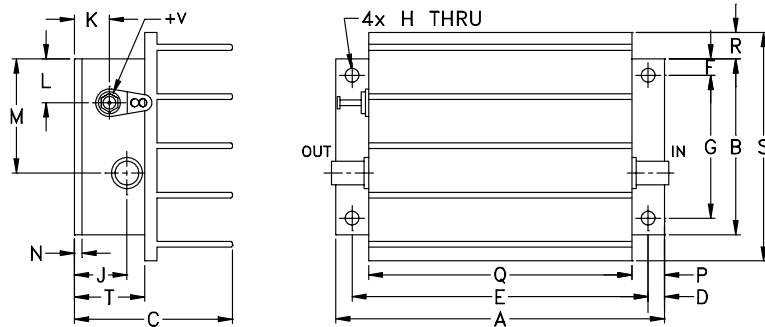
Operating Temperature -20°C to 65°C

Storage Temperature -55°C to 100°C

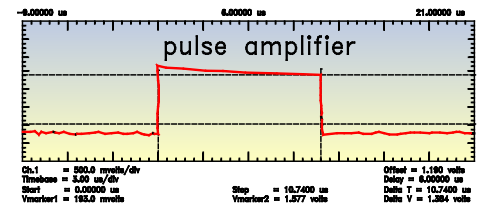
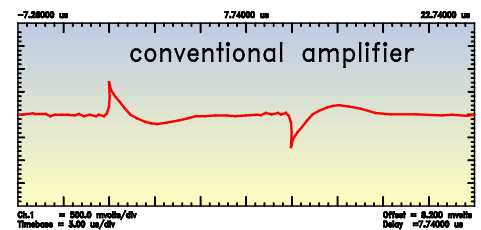
DC Voltage +24.5V Max.

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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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	24.14	30.72	1.85	1.40	24.63	10.00	7.38
0.01	24.47	29.52	1.61	1.20	24.76	106.00	7.15
0.05	24.42	29.95	1.58	1.18	24.70	202.00	7.20
1.01	24.43	28.89	1.58	1.17	24.82	298.00	7.27
10.08	24.92	27.56	1.57	1.17	25.50	418.00	7.29
50.00	25.41	27.85	1.54	1.18	25.58	466.00	7.26
98.88	25.40	26.60	1.52	1.18	25.44	514.00	7.23
167.88	25.17	27.34	1.48	1.17	25.30	562.00	7.22
251.25	24.92	28.45	1.39	1.15	24.91	610.00	7.18
366.25	24.56	28.65	1.26	1.10	24.64	658.00	7.17
501.38	24.29	30.00	1.09	1.11	24.34	706.00	7.12
645.13	24.76	26.40	1.18	1.17	24.14	754.00	7.07
763.00	25.71	24.64	1.45	1.50	23.06	802.00	6.97
883.75	27.09	20.40	1.70	3.10	20.65	898.00	6.77
1001.63	26.82	22.14	1.73	10.56	14.21	970.00	6.67

