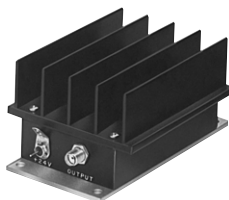


# PULSE AMPLIFIERS

Coaxial

**INVERTING & NON-INVERTING** up to 200 mW, 2.5 KHz to 700 MHz



ZPUL

Up to 200 mW

MODEL NO.	FREQ. (MHz) $f_L$ - $f_U$	GAIN (dB)		RISE/FALL TIME ns Max.	PULSE WIDTH* $\mu$ s Max.	POLARITY	MAXIMUM POWER (dBm)		DYNAMIC RANGE		VSWR Typ.		DC POWER		CASE STYLE $\Delta$ Note B	NORTH AMERICA	PRICE \$ ea. Qty. (1-9)
		Min.	Flatness Max.				Output (1 dB Comp.)	Input (no damage)	NF*** dB Typ.	Intercept 3rd order Typ.	In	Out	Volt V.	Current (mA)			
ZPUL-21	0.0025-700	21	$\pm 1$	1.5	6	Inverting	22	+10	7.3	34	2:1	2:1	24	350	S32	—	249.00
ZPUL-30P	0.0025-700	29	$\pm 1$	1.5	6	Non-inverting	22**	+10	7.2	34	2:1	2:1	24	400	S32	—	295.00

$L_w$  = low range [ $f_L$  to  $f_U/2$ ]

m = mid range [ $2f_L$  to  $f_U/2$ ]

U = upper range [ $f_U/2$  to  $f_U$ ]

\* Pulse width for less than 10% drop  
 \*\* For 500-700 MHz, +20.5 dBm  
 \*\*\* NF tested above 10 MHz

## features

- wide bandwidth 2.5 KHz to 700 MHz, useable to 1 GHz
- excellent flatness  $\pm 0.6$  dB typical
- can handle wide pulse width & (15  $\mu$ s typ.) with excellent rise/fall time (1.1 ns typ.)
- inverting (ZPUL-21) & non-inverting (ZPUL-30P) configurations
- delay time, 1.5 ns typical

## NSN GUIDE

MCL NO.	NSN
ZPUL-21	5996-01-493-6740

## applications

- computers
- digital communication
- medical test set-ups

## NOTES:

- $\Delta$  Available only with BNC connectors
  - B. Connector types and case mounted options, case finishes are given in section 0, see "Case styles & Outline Drawings".
  - C. Prices and specifications subject to change without notice.
  - D. For Quality Control Procedures see Table of Contents, Section 0, see "Mini-Circuits Guarantees Quality" article.
1. Operating temperature: -20°C to 65°C  
 Storage temperature: -55°C to 100°C

typical amplifier response to a pulse input

