

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER		μPC458	μPC4741	UNIT
Voltage between V ⁺ and V ⁻		40	40	V
Power Dissipation*	D Package	900	—	mW
	C Package	570	570	
	G Package	550	550	
Differential Input Voltage		±30	±30	V
Input Voltage (Note 1)		±15	±15	V
Output Short Circuit Duration (Note 2)		Indefinite	Indefinite	s
Operating Temperature Range	D Package	-20 to +80	—	°C
	C or G Package	-20 to +70	0 to 70	
Storage Temperature Range	D Package	-55 to +150	—	°C
	C or G Package	-55 to +125	-55 to +125	

Note 1 For supply voltages less than ±15 V, the absolute maximum input voltage is equal to the supply voltage.

Note 2 Short circuit to ground on one amplifier only.

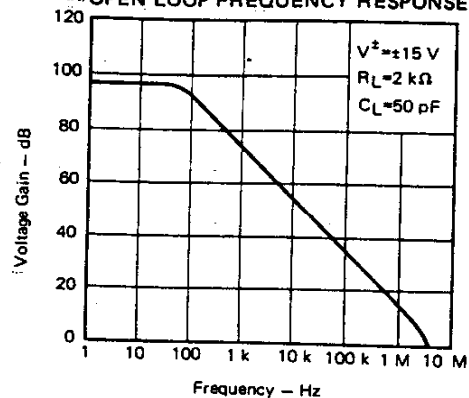
* See thermal information in chapter 11.

ELECTRICAL CHARACTERISTICS (Ta = 25°C, V[±] = ±15 V)

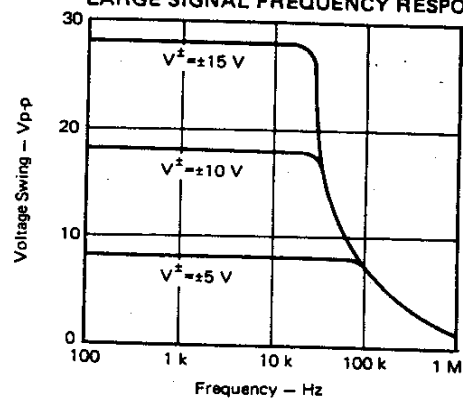
CHARACTERISTIC	MIN.	TYP.	MAX.	UNIT	CONDITIONS
Input Offset Voltage		1.0	5.0	mV	R _s ≤ 100 Ω
Input Offset Current		30	50	nA	
Input Bias Current		100	300	nA	
Large Singal Voltage Gain	25,000	50,000			R _L ≥ 2 kΩ, V _o = ±10 V
Power Consumption		150	210	mW	
Common Mode Rejection Ratio	80	90		dB	
Supply Voltage Rejection Ratio		50	100	μV/V	
Output Voltage Swing	±12	±13.7		V	R _L ≥ 10 kΩ
Output Voltage Swing	±10	±12.5		V	R _L ≥ 2 kΩ
Common Mode Input Voltage	±12	±14		V	
Slew Rate		1.6		V/μs	A _v = 1
Input Noise Voltage		9		nV/√Hz	f = 1 kHz
Channel Separation		108		dB	f = 10 kHz

TYPICAL PERFORMANCE CHARACTERISTICS (Ta=25 °C)

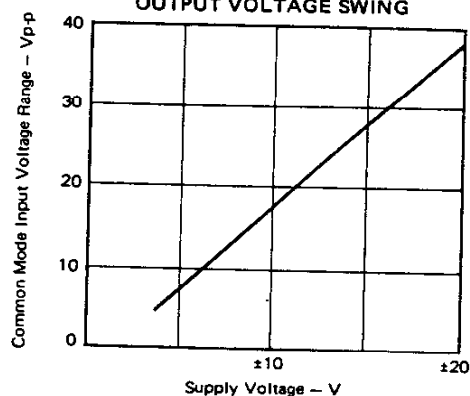
OPEN LOOP FREQUENCY RESPONSE



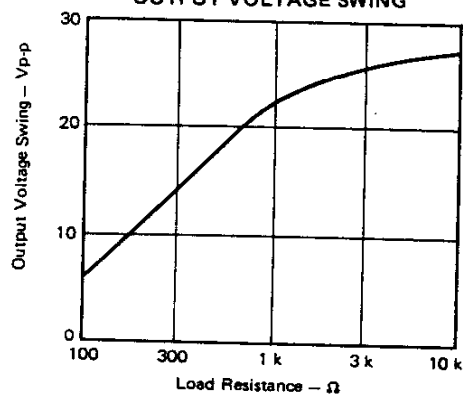
LARGE SIGNAL FREQUENCY RESPONSE



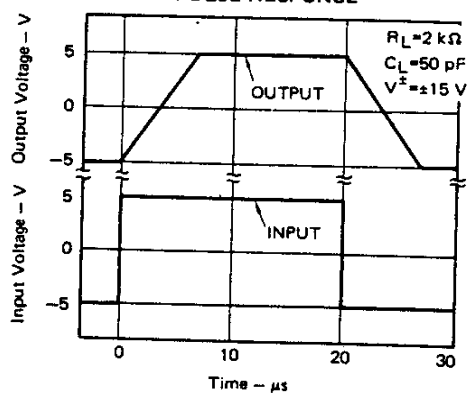
OUTPUT VOLTAGE SWING



OUTPUT VOLTAGE SWING



PULSE RESPONSE



CHANNEL SEPARATION

