OPERATIONAL AMPLIFIERS

MCC1741 MCC1741C

Advance Information



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

Note 2. Supply voltage equal to or less than 15 V.



This is advance information on a new introduction and specifications are subject to change without notice.

MCC1741, MCC1741C (continued)

Characteristic	Symbol	MCC1741			MCC1741C			
		Min	Түр	Мах	Min	Түр	Мах	Unit
Open Loop Voltage Gain (R _L = 2.0 kΩ) (V _O = ± 10 V)	AVOL	50,000	200,000	-	20,000	100,000	-	-
Output Impedance (f = 20 Hz)	Zo		75		-	75	-	Ω
Input Impedance (1 = 20 Hz)	Zin	-	1.0	-	-	1.0	-	MegΩ
Output Voltage Swing	vo							Vpeak
(R _L ⇒ 10 kΩ)		±12	±14	- 1	±12	±14	-	
(RL = 2.0 kii)		±10	±13	-	±10	±13	-	
Input Common-Mode Voltage Swing	CMVin	1.00	±13	-	-	±13	-	Vpeak
Common-Mode Rejection Ratio	CHA	-	90	_	-	90	-	dB
(1 = 20 Hz)	CM _{rej}	-	30	-	-	50		00
Input Bias Current	۱۶	-	0.2	0.5	-	0.2	0.5	Aµ
Input Offset Current	4io]	-	0.03	0.2	0	0.03	0.2	μA
Input Offset Voltage (R _S = ≦ 10 k Ω)	v _{io}		1.0	50	~	2.0	6.0	mV
Step Response		12						
Gain = 100	4	2	29 8.5	-	1	29 8.5		μs
	tpd							μs
	dV _{out} /dt ()	-	1.0		-	1.0	-	V/µs
Gain = 10	ty .		3.0	-	-	3.0	_	μs
	tpd	-	1.0	-	-	1.0	-	μs
	dVout/dt (1)	=	1.0	-	-	1.0	-	V/µs
Gain = 1	t f	-	0.6	1.2	-	0.6	-	μs
Gain * I	'pd		0.38	-		0.38	-	μs
	dV _{out} /dt ①	-	0.8	-	-	0.8	-	V/µs
Power Supply Current		-	1.67	2.83	-	1.67	2.83	mA
	10 ⁻	-	1.67	2.83	-	1.67	2.83	
DC Quiescent Power Dissipation	Pp				1	<u> </u>		mW
(Power Supply = ± 15 V, V ₀ = 0)	-	5	50	85	-	50	85	
Positive Supply Sensitivity	S+							μν/ν
(V ⁻ constant)		-	30	150	-	30	150	
Negative Supply Sensitivity			1					
(V ⁺ constant)		-	30	150	- 1	30	150	1

UdVout/dt = Slew Rate See current MC1741/1741C data sheet for additional information.

PACKAGING AND HANDLING

The MCC1741/MCC1741C operational amplifier is now available as a single monolithic die or encapsulated in a variety of hermetic and plastic packages. The phosphorsilicate passivation protects the metalization and active area of the die but care must be exercised when removing the dice from the shipping carrier to avoid scratching the bonding pads. A vacuum pickup is useful for handling of dice. Tweezers are not recommended for this purpose. The non-spill type shipping carrier consists of a compartmentalized tray and fitted cover. Die are placed in the carrier with geometry side up.