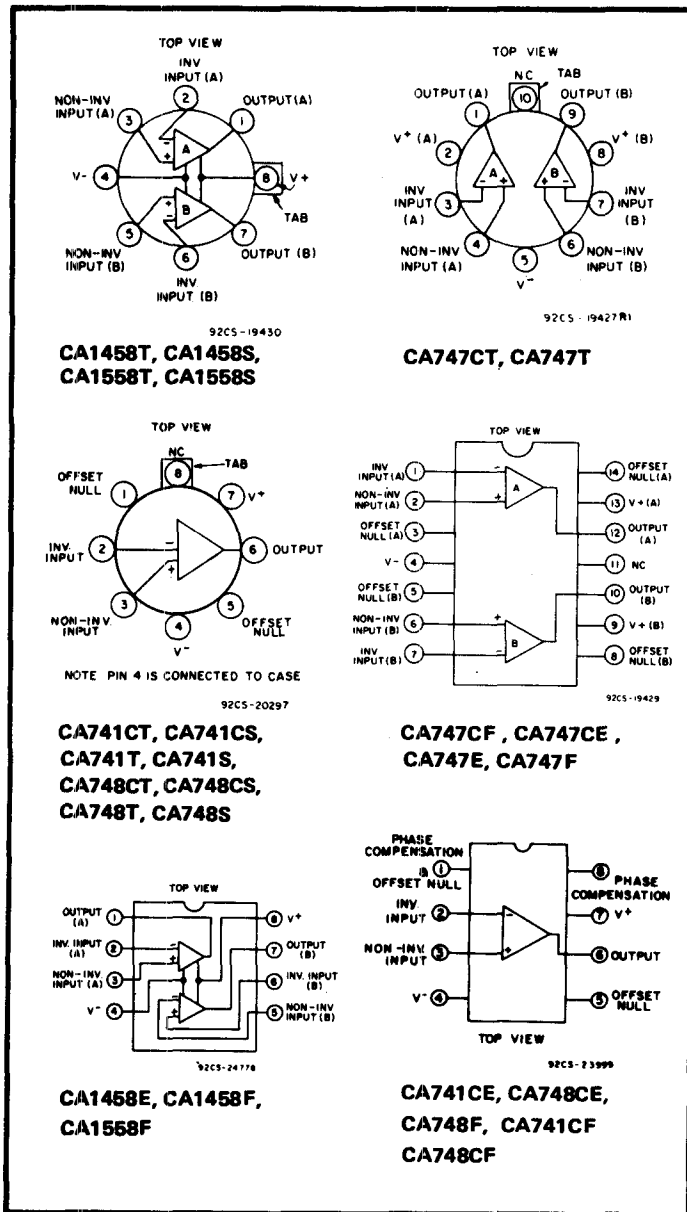


1 Operational Amplifiers

General-Purpose Types
continued

Operational Amplifiers

CA741, CA741C
CA747, CA747C
CA748, CA748C
CA1458, CA1558



Applications and Features

- Input bias current (all types): 500 nA max.
- Input offset current (all types): 200 nA max.
- Comparator
- DC amplifier
- Integrator or differentiator
- Multivibrator
- Narrow-band or band-pass filter
- Summing amplifier

Maximum Ratings at T_A = 25°C

- DC Supply Voltage (Between V⁺ and V⁻ terminals):
 - CA1458 Δ , CA741C, CA747C Δ , CA748C 36 V
 - CA1558 Δ , CA741, CA747 Δ , CA748 44 V
- Differential Input Voltage ± 30 V
- DC Input Voltage* ± 15 V
- Output Short-Circuit Duration Indefinite
- Device Dissipation:
 - Up to 70°C - CA741C, CA748C 500 mW
 - Up to 75°C - CA741, CA748 500 mW
 - Up to 30°C - CA747 800 mW
 - Up to 25°C - CA747C 800 mW
 - Up to 30°C - CA1558 680 mW
 - Up to 25°C - CA1458 680 mW

*If Supply Voltage is less than ± 15 volts, the Absolute Maximum Input Voltage is equal to the Supply Voltage.

Δ Voltage values apply for each of the dual operational amplifiers.

RCA Type No.	No. of Amps.	Phase Comp.	Offset Volt. Null	A _{OL} (min)	V _{IO} (max)	T _A Operating Range (°C)	Compatible with Industry Type(s)	Package Type and Suffix						
								TO-5			DIP		Chip	Beam Lead
								8L	10L	DIL CAN	8L	14L		
CA741C	Single	Internal	Yes	20,000	6 mV	0 to 70	μ A741C	T	-	S	E	-	H	-
CA741	Single	Internal	Yes	50,000	5 mV	-55 to +125	μ A741	T	-	S	-	-	-	L
CA747C	Dual	Internal	Yes	20,000	6 mV	0 to 70	μ A747C	-	T	-	-	E	H	-
CA747	Dual	Internal	Yes	50,000	5 mV	-55 to +125	μ A747	-	T	-	-	E	-	-
CA748C	Single	External	Yes	20,000	6 mV	0 to 70	μ A748C	T	-	S	E	-	-	-
CA748	Single	External	Yes	50,000	5 mV	-55 to +125	μ A748	T	-	S	-	-	-	-
CA1458	Dual	Internal	No	20,000	6 mV	-55 to +125	MC1458, N5558	T	-	S	E	-	-	-
CA1558	Dual	Internal	No	50,000	5 mV	-55 to +125	MC1558, S5558	T	-	S	-	-	-	-

File No. 531*

High-Reliability Versions (CA741, CA747, CA748 and CA1558), See Page 41.

*Refer to indicated File No. for data bulletin and where given to indicated ICAN No. for application note.