

OPERATIONAL AMPLIFIER

CA3032/702C

General-purpose amplifier used in narrow-band and bandpass amplifier, feedback amplifier, dc and video amplifier, multivibrator, oscillator, comparator, servo driver, and scaling adder applications. 8-lead "TO-5" package; Outline No. 4. The maximum ratings for this type are identical to type CA3031/702A, except for the temperature ranges mentioned below.

MAXIMUM RATINGS

Temperature Range:

Operating	0 to 70 °C
Storage	-65 to 150 °C

TYPICAL CHARACTERISTICS (At ambient temperature = 25°)

$$V_{CC} = +12V, V_{EE} = -6V$$

Input Offset Voltage	V_{IO}	5	mV
Input Offset Current	I_{IO}	1.5	μA
Input Bias Current	I_I	5	μA
Device Dissipation	P_T	90	mW
Open-Loop Differential Voltage Gain ($f = 1$ kHz)	A_{OL}	70	dB
Open-Loop -3-dB Bandwidth	BW_{OL}	700	kHz
Common-Mode Rejection Ratio ($f = 1$ kHz)	CMR	80	dB
Maximum Output-Voltage Swing ($R_L = 100$ k Ω , $f = 1$ kHz)	$V_o(P-P)$	10 min	V_{p-p}
Input Resistance ($f = 1$ kHz)	R_{in}	20	k Ω
Output Resistance ($f = 1$ kHz)	R_{out}	200	Ω
Useful Frequency Range		dc to 40	MHz
Common-Mode Input-Voltage Range ($f = 1$ kHz)	V_{CMR}	+0.5, -4	V