

# **OPERATIONAL AMPLIFIER**

# **CA3038A**

General-purpose amplifier used in narrow-band and bandpass amplifier, feedback, dc and video amplifier, multivibrator, oscillator, comparator, and servo driver applications. 14-lead TO-116 ceramic dual-in-line package; Outline No. 7. For schematic diagram and

characteristics curves, see Figs. 196, 225, and 226. This type is identical to type CA3038 except for the following items:

**TYPICAL CHARACTERISTICS (At ambient temperature = 25°C,  
 $V_{CC} = +12V$ ,  $V_{EE} = -12V$ )**

Input Offset Voltage .....	$V_{IO}$	1	mV
Input Offset Current .....	$I_{IO}$	0.5	$\mu A$
Input Bias Current .....	$I_I$	4.7	$\mu A$
Input Impedance .....	$Z_{in}$	10	$k\Omega$
Output Impedance .....	$Z_{out}$	85	$\Omega$
Noise Figure .....	NF	11	dB