

HIGH-FREQUENCY WIDE-BAND AMPLIFIER/ PHASE DETECTOR

CA3034

Special-purpose amplifier used in differential input amplifier, dual phase detector with differential output amplifier, and afc applications. 10-lead "TO-5" package; Outline No. 1. For schematic diagrams, see Figs. 278 and 279.

MAXIMUM RATINGS

Input Signal Voltage (Single-ended)	12	V_{p-p}
Supply Voltage	15	V
Total Device Dissipation	300	mW
Temperature Range:		
Operating	-55 to 125	°C
Storage	-65 to 200	°C

TYPICAL CHARACTERISTICS (At ambient temperature = 25°C, $V_{CC} = 10V$)

Total Current Drain	I_d	9	mA
Quiescent Operating Current into Terminal 2 ..	I_2	1.9	mA
Reference Voltage at Terminal 9	V_9	5.5	V
Quiescent Operating Voltage at Terminal 4	V_4	5.5	V
Quiescent Operating Voltage at Terminal 5	V_5	5.5	V
Output Offset Voltage between Terminals 4 and 5	$V_{4,5}$	0	V
Input Impedance (Terminal 7)	Z_{in}	2	k Ω