

CA3022

VIDEO AND WIDE-BAND AMPLIFIER

General-purpose amplifier used in gain-controlled linear amplifier, AM/FM if amplifier, video amplifier, and limiter applications. 12-lead "TO-5" package; Outline No. 2. For schematic diagrams and characteristics curves, see Figs. 119 through 133. For maximum ratings, refer to type CA3021.

TYPICAL CHARACTERISTICS (At ambient temperature = 25°C, $V_{CC} = +6V$, $V_{EE} = 0$)

Device Dissipation	P_T	12.5	mW
Quiescent Output Voltage	V_O	1.9	V
AGC Source Current ($V_{AGC} = 6V$)	I_{AGC}	0.8	mA
Voltage Gain ($f = 2.5$ MHz)	A	57	dB
-3-dB Bandwidth	BW	7.5	MHz
Input Resistance ($f = 5$ MHz)	R_{in}	1300	Ω
Input Capacitance ($f = 5$ MHz)	C_{in}	18	pF
Output Resistance ($f = 5$ MHz)	R_{out}	120	Ω
Noise Figure ($f = 1$ MHz)	NF	4.4	dB
AGC Range ($f = 5$ MHz)	AGC	33	dB
Useful Frequency Range		dc to 20	MHz
Maximum Output Voltage ($f = 5$ MHz)	v_{out}	0.7	V_{rms}