

Special Purpose Circuits (Continued)

Type	Description	V _S * Max. V	I _{OUT} (Peak) A	BW 60W kHz	P _{OUT} RMS W	IMD @ (200mW) %	
HC2000H	Multipurpose 7-A op amps	75	7	30	Up to 100	0.6	
HC2500		75	7	30	Up to 100	0.06	
		Output Protection Network		Frequency Compensation		Operating Mode	Commutating Diodes
HC2000H		Yes		LC filter on output		Class B	Yes
HC2500		No		Capacitor on sig. terminals		Class AB	No
		Features • Operation from either single or split power supplies • Output currents up to 7A; power output up to 100W • Bandwidth of 30kHz at 60W • Adjustable idling current • Direct coupling to load • Built-in load-line limiting circuit to protect amplifier from short-circuiting output terminals (HC2000H) • Metal hermetic package					
*Power supply: Single 30 to 75V; split ±15 to 37.5V. Operating temperature range: -55 to +125°C							
CA3020 CA3020A	Multipurpose wideband power amplifiers	Characteristics			CA3020	CA3020A	Units
		Maximum power output (P _O) at THD = 10%			550	1000	mW
		Sensitivity (C _{IN})			35	45	mV
		Power gain (G _p)			75	75	dB
		Input resistance (R _{IN})			55	55	kΩ
		Signal-to-noise ratio (I/N)			70	66	dB
		Total harmonic distortion at 150mW (THD)			3.1	3.3	%
		Bandwidth (-3db point) (BW)			8	8	MHz
Operating temperature range (T _A): -55 to +125°C Typical electrical characteristics at T _A = 25°C 12-lead (T) package							