ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748–5089

NTE1400
Integrated Circuit
FM Limiter Circuit

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Supply Voltage ($V_{12–4}$), V_{CC} 15.6V
Supply Current, I_{CC} 30mA
Power Dissipation, P_D 490mW
Operating Temperature Range, T_{opr} . . . . . –20° to +70°C
Storage Temperature Range, T_{stg} . . . . . –40° to +150°C

Electrical Characteristics: (V_{CC} = $V_{12–4}$ = 12V, T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Circuit Current	I_{12}		15	25	30	mA
Output Amplitude	$V_{8(P–P)}$	V_{14} = 0 to 6.3V	1.0	1.2	–	V
Voltge Gain for Reference Wave	G_V	f = 4MHz, V_i = 0.14m$V_{P–P}$	1.0	–	–	$V_{P–P}$
2nd Harmonics Attenuation	$V_{o(f)}/V_{O(2f)}$	f = 4MHz, V_i = 100m$V_{P–P}$	40	–	–	dB
		V_{12} = 9V, f = 6MHz, V_i = 10m$V_{P–P}$	40	–	–	dB
		f = 4MHz, V_i = 1.0$V_{P–P}$	40	–	–	dB
		f = 4MHz, V_i = 100m$V_{P–P}$, T_A = +70°C	–	41	–	dB
		f = 4MHz, V_i = 100m$V_{P–P}$, T_A = –20°C	–	48	–	dB
DC Current Gain (T30)	$h_{FE(T30)}$	$V_{7–4}$ = 5V, $V_{6–4}$ = 0.7V, I_5 = –1mA	40	–	200	

Pin Connection Diagram