



ELECTRONICS, INC.
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NTE1668 Integrated Circuit TV SoundIF/Detector

Features:

- Low Distortion: 0.02%
- High Sensitivity: 200 μ V_{rms}
- Excellent AMR: -55dB Typ.

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

Power Supply Voltage, V_{CC} 15V
 Input Voltage Pin 7 & 8, V₇, V₈ 3V_{p-p}
 Power Dissipation (T_A = +75°C), P_D 270mW
 Operating Ambient Temperature Range, T_{opr} -20° to +75°C
 Storage Temperature Range, T_{stg} -40° to +125°C

Electrical Characteristics: (T_A = +25°C, T_A = +25°C, f = 4.5MHz, f_M = 400Hz, AM MOD = 30%)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total Supply Current	I _{CC}	Zero Carrier	8	16	24	mA
IF Limiting Voltage	V _{i(lim)}	V _{OAF} (V _i = 3 _m V _{rms}) -3dB point	-	180	360	μ V _{rms}
Detector Output Voltage -1	V _{OAF1}	V _i = 3 _m V _{rms} , Δ f = \pm 25kHz	150	200	-	mV _{rms}
Detector Output Voltage -2	V _{OAF2}	V _i = 3 _m V _{rms} , Δ f = \pm 50kHz	320	410	-	mV _{rms}
Detector Output Distortion -1	THD ₁	V _i = 3 _m V _{rms} , Δ f = \pm 25kHz	-	0.2	0.5	%
Detector Output Distortion -2	THD ₂	V _i = 3 _m V _{rms} , Δ f = \pm 50kHz	-	0.6	1.5	%
AM Rejection	AMR	V _i = 3 _m V _{rms} , Δ f = \pm 25kHz	-45	-55	-	dB

Pin Connection Diagram
(Front View)



