



ELECTRONICS, INC.
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NTE1668 Integrated Circuit TV SoundIF/Detector

Features:

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

Absolute Maximum Ratings: ($T_A = +25^\circ C$ unless otherwise specified)

Power Supply Voltage, V_{CC} 15V
 Input Voltage Pin 7 & 8, V_7, V_8 $3V_{p-p}$
 Power Dissipation ($T_A = +75^\circ C$), P_D 270mW
 Operating Ambient Temperature Range, T_{opr} -20° to $+75^\circ C$
 Storage Temperature Range, T_{stg} -40° to $+125^\circ C$

Electrical Characteristics: ($T_A = +25^\circ C$, $T_A = +25^\circ C$, $f = 4.5MHz$, $f_M = 400Hz$, 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	μV_{rms}
Detector Output Voltage -1	V_{OAF1}	$V_i = 3_m V_{rms}$, $\Delta f = \pm 25kHz$	150	200	-	mV_{rms}
Detector Output Voltage -2	V_{OAF2}	$V_i = 3_m V_{rms}$, $\Delta f = \pm 50kHz$	320	410	-	mV_{rms}
Detector Output Distortion -1	THD ₁	$V_i = 3_m V_{rms}$, $\Delta f = \pm 25kHz$	-	0.2	0.5	%
Detector Output Distortion -2	THD ₂	$V_i = 3_m V_{rms}$, $\Delta f = \pm 50kHz$	-	0.6	1.5	%
AM Rejection	AMR	$V_i = 3_m V_{rms}$, $\Delta f = \pm 25kHz$	-45	-55	-	dB

Pin Connection Diagram
(Front View)



