ELECTRONICS, INC.
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NTE1014
Integrated Circuit
Module – Hybrid, RF Amp/OSC

Description:
The NTE1014 is an integrated circuit in a 9–Lead Staggered SIP type package designed for use as an oscillator and RF power output of a wireless microphone.

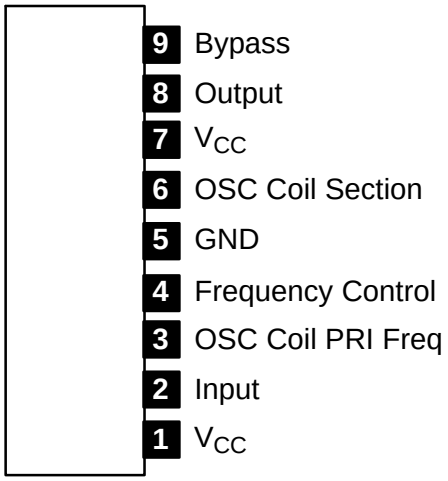
Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)
Maximum Supply Voltage, V_{CC}max 6V
Maximum Supply Current, I_{CC}max 20mA
Maximum Power Dissipation, $P_D$max 100mW
Operating Temperature Range, T_{opr} . . . . . –20° to +80°C
Storage Temperature Range, T_{stg} . . . . . –20° to +100°C

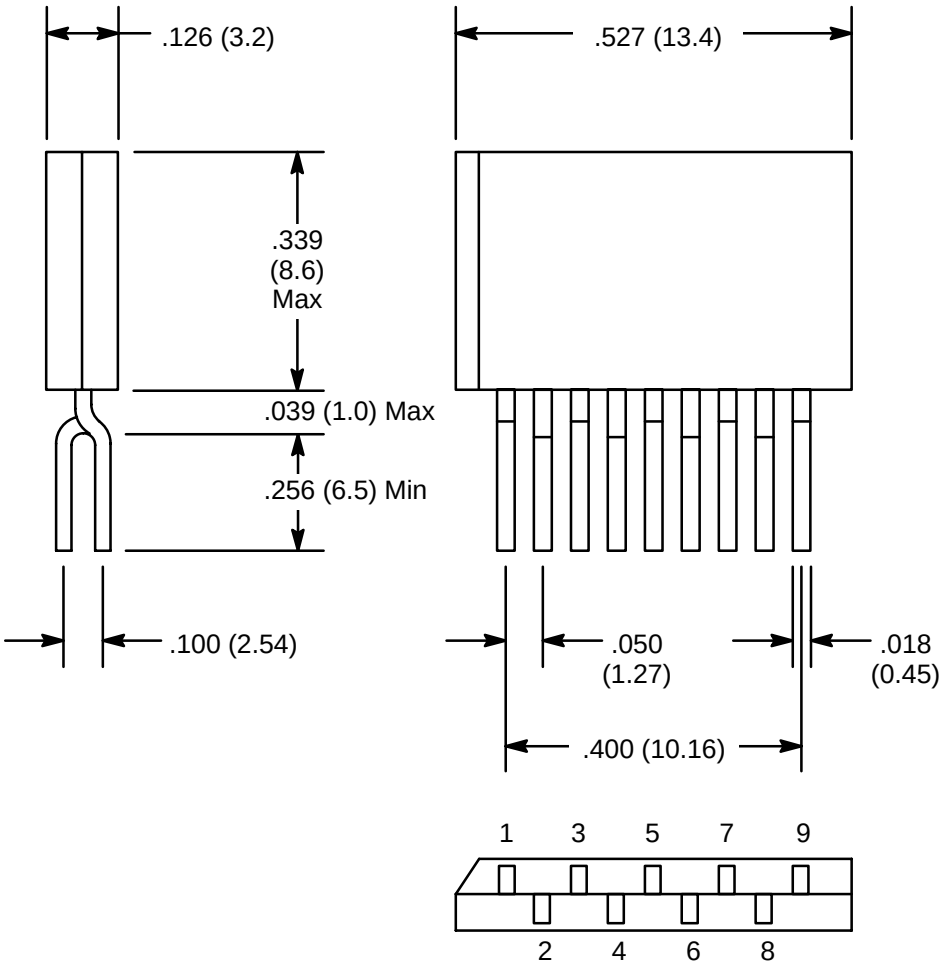
Recommended Operating Conditions: (T_A = +25°C unless otherwise specified)
Recommended Supply Voltage, V_{CC} 2.5V

Electrical Characteristics: (T_A = +25°C, V_{CC} = 2.5V, AF Frequency = 1kHz, f_{OSC} = 43MHz, Transmission Frequency = 86MHz unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Consumption Current	I_{CC}		–	5	–	mA
Output Power	P_O	75Ω at Antenna Terminal	100	–	–	mV
Modulation Sensitivity		AF Input = 2.5mV	10	–	–	kHz

Pin Connection Diagram
(Front View)




.126 (3.2)
.527 (13.4)
.339
(8.6)
Max
.039 (1.0) Max
.256 (6.5) Min
.100 (2.54)
.050
(1.27)
.018
(0.45)
.400 (10.16)
1 3 5 7 9
2 4 6 8