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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:

 ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Maximum Supply Voltage, V_{CCmax}	6V
Maximum Supply Current, I_{CCmax}	20mA
Maximum Power Dissipation, P_{Dmax}	100mW
Operating Temperature Range, T_{opr}	-20° to $+80^\circ\text{C}$
Storage Temperature Range, T_{stg}	-20° to $+100^\circ\text{C}$

Recommended Operating Conditions:

 ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Recommended Supply Voltage, V_{CC}	2.5V
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Electrical Characteristics:

 ($T_A = +25^\circ\text{C}$, $V_{CC} = 2.5\text{V}$, AF Frequency = 1kHz, $f_{OSC} = 43\text{MHz}$, Transmission Frequency = 86MHz unless otherwise specified)

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

Pin Connection Diagram
(Front View)

9	Bypass
8	Output
7	V_{CC}
6	OSC Coil Section
5	GND
4	Frequency Control
3	OSC Coil PRI Freq
2	Input
1	V_{CC}



