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NTE1197
Integrated Circuit
OSC and 12–Stage Divider

Description:

The NTE1197 is an integrated circuit in a 9–Lead SIP type package consisting of a 12 stage frequency divider and an amplifier for use in crystal oscillator applications. This device is designed to operate with an input frequency of 10.24MHz. Available reference dividing ratios are 2^8, 2^{10}, 2^{11} and 2^{12}.

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

Supply Voltage, V_{DD} 10V
Input Voltage, V_{IN} . . . . . –0.3 to V_{DD} + 0.3V
Operating Temperature Range, T_{opr} . . . . . –30 to +75°C
Storage Temperature Range, T_{stg} . . . . . –55 to +125°C

Electrical Characteristics: (T_A = –30° to 75°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Operating Supply Voltage	V_{DD}	X' tal = 10.24MHz	4.5	–	8.0	V
Operating Current	I_{DD}	X'tal = 10.24MHz V_{DD}= 7.5V	–	–	7.0	mA
Output Voltage High Level	V_{OH}	V_{DD} = 7.5V, I_{OL} = 50μA, Pin4, Pin6, Pin7, Pin8	7.3	–	–	V
Output Voltage Low Level	V_{OL}	V_{DD} = 7.5V, I_{OH} = –50μA, Pin4, Pin6, Pin7, Pin8	–	–	0.2	V
Maximum Clock Frequency	f_{MAX}	V_{DD} = 7.5V	10.24	–	–	MHz
PIN Output Voltage	V_{OUT}	V_{DD} = 7.5V, C_L = 15pF, X'tal = 10.24MHz	3.5	–	–	$V_{P–P}$

Pin Connection Diagram
(Front View)