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NTE1427 Integrated Circuit VTR Reference Frequency Divider

Description:

The NTE1427 is an integrated circuit designed for VTR's reference frequency dividing.

Features:

- The functions consist of:
3.58MHz, 4.43MHz crystal oscillation
Frequency divider circuit
- Divider ratio changeable either for NTSC system or PAL system
- Divider output frequency
NTSC system 59.9Hz (3.58MHz)
PAL system 50.0Hz (4.43MHz)
- Supply voltage either 9V or 12V

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

Supply Voltage, V_{CC}	12.5V
Supply Current, I_{CC}	22.5mA
Power Dissipation, P_D	280°C
Operating Supply Voltage, $V_{CC(\text{opr})}$	8.8 ~ 12.5V
Operation ambient temperature	-20 ~ +70°C
Storage temperature, T_{stg}	-40 ~ +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Total circuit current	I_{tot}	$V_{7-4} = 9V$	13	—	21	mA
Sensitivity (Divider Input)	$S_{(1)}$	$V_{CC} = 9V$	400	—	—	mV _{p-p}
Sensitivity (N/P Switch)	$S_{(2)}$		3	—	—	V
High-level output voltage (Divider)	V_{OH}	$V_{CC} = 9V$	4.5	—	—	V
Low-level output voltage (Divider)	V_{OL}		—	—	0.5	V
Output Voltage (X'tal Osc)	V_O	$V_{CC} = 9V, 3.58$				

Pin Connection Diagram

