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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, $V_{CC(opr)}$	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 <sub>p-p</sub>
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

