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## NTE7074 Integrated Circuit Module, 3 Output Positive Voltage Regulator for VCR

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

Maximum DC Input Voltage, $V_{IN}$ (DC) Max .....	30V
Maximum Average Output Current, $I_O$ Max	
$V_{O1}$ .....	1.0A
$V_{O2}$ .....	1.0A
$V_{O3}$ .....	1.0A
Maximum Peak Output Current (Note 1), $I_O$ Max	
$V_{O1}$ .....	2.0A
$V_{O2}$ .....	2.0A
$V_{O3}$ .....	2.0A
Operating Case Temperature, $T_C$ Max .....	$+105^\circ\text{C}$
Junction Temperature, $T_J$ Max .....	$+150^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-30^\circ$ to $+105^\circ\text{C}$
Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	$7^\circ\text{C/W}$

Note 1. Peak Current: For 0.2sec Max.

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

Parameter	Test Conditions	V <sub>O1</sub>	V <sub>O2</sub>	V <sub>O3</sub>	Unit
Output Voltage Setting	Condition 1, Note 2	12.3±0.2	12.2±0.2	5.3±0.8	V
Output Cutoff Residual Voltage	Condition 1	12.3±0.2	0.1	0.1	V Max
Ripple Voltage	Condition 1	10	5	5	mV <sub>p-p</sub> Max
Temperature Coefficient	Condition 1	0.02	0.02	0.02	%/°C Max
Input Regulation	Condition 2	10	10	2	mV/V Max
	Condition 3	2	2	2	
Load Regulation	Condition 4	50	45	45	mV/A Max
Minimum Input-Output Voltage Difference	Condition 5	1.2	1.2	1.2	V Max

Note 2. Measurement must be made within 1 to 2 sec. after input switch is ON.

**Test Conditions:**

- Condition 1:  $V_B = 45V$ ,  $V_{IN} (DC) 1 = 17V$ ,  $V_{IN} (DC) 2 = 9V$ , Ripple =  $1.5mV_{p-p}$   
 $I_{O1} = 0.5A$ ,  $I_{O2} = 0.5A$ ,  $I_{O3} = 0.5A$
- Condition 2:  $V_B = 45V \pm 6V$ ,  $V_{IN} (DC) 1 = 17V$ ,  $V_{IN} (DC) 2 = 9V$ ,  
 $I_{O1} = 0.5A$ ,  $I_{O2} = 0.5A$ ,  $I_{O3} = 0.5A$
- Condition 3:  $V_B = 45V$ ,  $V_{IN} (DC) 1 = 13.7V$  to  $21V$ ,  $V_{IN} (DC) 2 = 6.6V$  to  $12V$ ,  
 $I_{O1} = 0.5A$ ,  $I_{O2} = 0.5A$ ,  $I_{O3} = 0.5A$
- Condition 4:  $V_B = 45V$ ,  $V_{IN} (DC) 1 = 17V$ ,  $V_{IN} (DC) 2 = 9V$ ,  $I_{O1} = 0.1A$  to  $1A$ ,  
 $I_{O2} = 0.1A$  to  $1A$ ,  $I_{O3} = 0.1A$  to  $1A$
- Condition 5:  $V_B = 45V$ ,  $I_{O1} = I_{O2} = I_{O3} = 0.5A$

**Pin Connection Diagram**  
(Front View)

