

## NTE7024 Integrated Circuit Module, 2 Output Positive Voltage Regulator for VCR

**Features:**

- 2 Outputs
- Output Voltage Select Function

**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
$V_{O2}$ .....	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, $R_{thJC}$ .....	$4.5^\circ\text{C/W}$

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

Parameter	Test Conditions	Min	Typ	Max	Unit
Output Voltage Setting $V_{O1}$ $V_{O2}$	$V_{IN}$ (DC) = $V_B$ = 18V, $I_{O1}$ = 0.2A, $I_{O2}$ = 0.4A	9.7 11.6	9.8 11.7	9.9 11.8	V
Output Cutoff Residual Voltage		–	–	0.1	V
Ripple Compression Ratio		–	–	0.3	%
Temperature Coefficient		–	–	0.02	%/ $^\circ\text{C}$
Load Regulation		–	–	35	mV/A
Input Regulation	Condition 1	–	–	35	mV/V
	Condition 2	–	–	35	
Minimum Input-Output Voltage Difference	$V_B = 18\text{V}$ , $I_{O1} = 1\text{A}$	1.5	–	–	V

**Test Conditions:**

- Condition 1:  $V_{IN}$  (DC) =  $V_B$  = 15V to 22V,  $I_{O1}$  = 0.2A,  $I_{O2}$  = 0.4A  
 Condition 2:  $V_{IN}$  (DC) =  $V_B$  = 18V,  $I_{O1}$  = 0 to 1A,  $I_{O2}$  = 0 to 1A

**Pin Connection Diagram**  
(Front View)

