



ELECTRONICS, INC.
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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° to $+105^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC}	4.5°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	9.8	9.9	V
Output Cutoff Residual Voltage		11.6	11.7	11.8	
Ripple Compression Ratio		–	–	0.1	V
Temperature Coefficient		–	–	0.3	%
Load Regulation		–	–	0.02	%/ $^\circ\text{C}$
Input Regulation	Condition 1	–	–	35	mV/V
	Condition 2	–	–	35	
Minimum Input-Output Voltage Difference	V_B = 18V, I_{O1} = 1A	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)

