



ELECTRONICS, INC.

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NTE1734 Integrated Circuit Module, 3 Output Positive Voltage Regulator for VCR

Features:

- 3 Outputs
- Cutoff 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}	2.0A
V_{O2}	1.0A
V_{O3}	0.5A
Maximum Peak Output Current, I_O Max	
V_{O1}	2.5A
V_{O2}	2.0A
Operating Case Temperature, T_C Max	+105°C
Junction Temperature, T_J Max	+150°C
Storage Temperature Range, T_{stg}	-30° to +105°C
Thermal Resistance, Junction-to-Case, R_{thJC}	
V_{O1}	4.0°C/W
V_{O2}	4.5°C/W
V_{O3}	10°C/W

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

Parameter	Test Conditions	V_{O1}	V_{O2}	V_{O3}	Unit
Output Voltage Setting	Condition 1	12.0 ±0.3	9.0±0.1	5.5±0.1	V
Ripple Voltage	Condition 2	5	3	3	mV _{p-p} Max
Temperature Coefficient	Condition 1	0.02	0.02	0.02	%/°C Max
Input Regulation	Condition 3	30	35	5	mV/V Max
Load Regulation	Condition 4	45	40	100	mV/A Max
Minimum Input-Output Voltage Difference	Condition 5	0.7	1.2	2.5	V Max

Note 1. When Pin13 is at High Level ($\geq 3V$), V_{O3} is turned ON.
When Pin13 is at Low Level ($\leq 0.6V$), V_{O3} is turned OFF.

Test Conditions:

Condition 1: V_{IN} (DC) 1 = 17V, V_{IN} (DC) 2 = 9V, I_{O1} = 2A, I_{O2} = 1A, I_{O3} = 0.5A

Condition 2: V_{IN} (DC) 1 = 17V, V_{IN} (DC) 2 = 9V, I_{O1} = I_{O2} = 2A, I_{O3} = 0.5A, Input Ripple Voltage = 1.5V_{P-P}

Condition 3: V_{IN} (DC) 1 = 17V ±4V, V_{IN} (DC) 2 = 9.5V ±2V

Condition 4: V_{IN} (DC) 1 = 17V, V_{IN} (DC) 2 = 9V, I_{O1} = I_{O2} = 0.2A to 2A, I_{O3} = 0 to 0.5A

Condition 5: I_{O1} = 2A, I_{O2} = 1A, I_{O3} = 0.5A

Pin Connection Diagram
(Front View)

