ELECTRONICS, INC.
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NTE1733
Integrated Circuit
Module, 4 Output Positive Voltage Regulator for VCR

Features:
- 4 Outputs
- Output Voltage Select Function

Absolute Maximum Ratings: (T_A = +25°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 . . . . . 1.5A
- V_O3 . . . . . 1.0A
- V_O4 . . . . . 0.5A

Maximum Peak Output Current, I_O Max
- V_O1 . . . . . 2.5A
- V_O2 . . . . . 2.0A
- V_O3 . . . . . 3.0A

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, V_O2, V_O3 . . . . . 4.5°C/W
- V_O4 . . . . . 10°C/W

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Test Conditions	V_O1	V_O2	V_O3	V_O4	Unit
Output Voltage Setting	Condition 1	15.0 ±0.3	9.5±0.1	12.0±0.1	5.1±0.1	V
Ripple Voltage	Condition 2	5	3	5	3	mV_{p-p} Max
Temperature Coefficient	Condition 1	0.02	0.02	0.02	0.02	%/°C Max
Input Regulation	Condition 3	30	35	35	5	mV/V Max
Load Regulation	Condition 4	40	35	35	100	mV/A Max
Minimum Input–Output Voltage Difference	Condition 5	1.5	–	1.2	2.5	V Max

Note 1. When Pin13 is at High Level (≥ 3V), V_O1 and V_O2 are turned ON.
When Pin13 is at Low Level (≤ 0.6V), V_O1 and V_O2 are turned OFF.

Test Conditions:

Condition 1: V_{IN} (DC) 1 = 20V, V_{IN} (DC) 2 = 15V, I_O1 = 2A, I_O2 = I_O3 = 1A, I_O4 = 0.5A

Condition 2: V_{IN} (DC) 1 = 20V, V_{IN} (DC) 2 = 15V, I_O1 = 2A, I_O2 = I_O3 = 1A, I_O4 = 0.5A, Input Ripple Voltage = $1.5V_{P-P}$

Condition 3: V_{IN} (DC) 1 = 20V ±3V, V_{IN} (DC) 2 = 15.2V ±2V, I_O1 = 2A, I_O2 = I_O3 = 1A, I_O4 = 0.5A

Condition 4: V_{IN} (DC) 1 = 20V, V_{IN} (DC) 2 = 15V, I_O1 = I_O2 = I_O3 = 0.2A to 2A, I_O4 = 0 to 0.5A

Condition 5: I_O1 = 2A, I_O2 = I_O3 = 1A, I_O4 = 0.5A

Pin Connection Diagram
(Front View)