

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°C |
| Junction Temperature, T_J Max | +150°C |
| Storage Temperature Range, T_{stg} | -30° to +105°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 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 | %/°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)

