



**ELECTRONICS, INC.**  
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## NTE7025 Integrated Circuit Module, Switching Regulator Power Supply

**Features:**

- Switching regulator power IC
- Single-package, selectorless regulated power supply applicable to a wide range of line voltages from 0 to 280VAC
- The oscillation circuit is of a self-oscillation type.

**Absolute Maximum Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

AC Input Voltage, $V_{AC}$ .....	0 to 280V <sub>rms</sub>
Maximum Output Power (85 to 280VAC), $P_{Omax}$ .....	80W
Operating Temperature Range, $T_{opg}$ .....	-10° to +65°C
Storage Temperature Range, $T_{stg}$ .....	-30° to +105°C
Operating Case Temperature, $T_{Cmax}$ .....	+105°C
Thermal Resistance, Junction-to-Case, $R_{thJC}$ .....	1.6°C/W
Maximum Junction Temperature, $T_{Jmax}$ .....	+150°C

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

Parameter	Test Conditions	Min	Typ	Max	Unit
Output Voltage Setting	$V_{AC} = 200V, I_O = 0.3A$	114	115	116	V
Line Regulation	$V_{AC} = 170 \text{ to } 280V, I_O = 0.5A$	-	0.4	1.0	V
Load Regulation	$V_{AC} = 200V, I_O = 0.3 \text{ to } 0.7A$	-	1.0	2.0	V
Input Power	$V_{AC} = 200V, I_O = 0.7A$	-	102	105	W
Output Ripple Voltage	$V_{AC} = 200V, I_O = 0.7A$	-	0.4	0.6	V <sub>p-p</sub>
Temperature Coefficient	$V_{AC} = 200V, I_O = 0.7A$	-	7	-	mV/°C
Light Load Characteristic	$V_{AC} = 200V, R_L = 4.7k\Omega$	-	125	135	V

