



**POWER MATE
TECHNOLOGY CO., LTD.**
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**DC/DC
CONVERTERS**
MARKETING DEPT.
DIRECT LINE: 886-4-23591087
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E-mail: sales@pduke.com
Http://www.pduke.com

NTS01-0540DS

GENERAL DESCRIPTION

The NTS series of 1w DC/DC converters have very low quiescent power for meeting the guidelines of CCITT recommendation I.430.

ELECTRICAL SPECIFICATIONS

All specifications are typical at nominal input ,full load ,and 25 unless otherwise noted.

INPUT SPECIFICATIONS

Input Voltage Range _____ 25-120V
Start Up Voltage(at +5v 100mA test) _____ 39V Min.

OUTPUT SPECIFICATIONS

Output Voltage ,Current _____ Vo1:+5V,100mA
Vo2:+40V,12.5mA
Voltage Accuracy _____ $\pm 5\%$,Vo1
 $+5\%$, -15% ,Vo2
Temperature Coefficient _____ $\pm 0.2\%$ /
Ripple and Noise,20MHzBW _____ 100mVp-p,V01
(Test When +5V at 3.3uF 16V OS-CON 200mVp-p,V02
+40V at 47uF 50V E/C)
Short Circuit Protection _____ Continuous
(When +40V Short ,+5V Normally Works.)
Load Regulation,FL-1/4FL _____ $\pm 5\%$,Vo1
Line Regulation ,HL-LL(Cross Reg.) _____ $+5\%$, -15% ,Vo2
Efficiency _____ 80% Typ.



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GENERAL SPECIFICATIONS

Isolation Voltage _____ 2KVdc, I/O
500Vdc, O/O
Isolation Resistance _____ 10^9 Ohms
Switching Frequency _____ 100KHz typ.

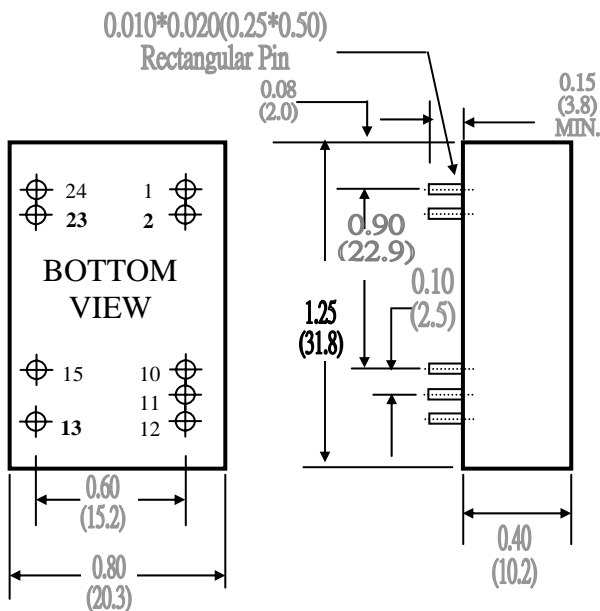
ENVIRONMENTAL SPECIFICATIONS

Operation Temperature Range _____ -25 °C to +71°C
Storage Temperature Range _____ -55 °C to +125°C
Cooling _____ Free-Air Convection

PHYSICAL SPECIFICATIONS

Case material _____ Nickel-Coated Copper with
Non-Conductive Base
Dimensions _____ 1.25x 0.8x 0.4 Inches
(32x 20.3x 10.2mm)

MECHANICAL DRAWING



Dimensions in inches and (mm)
Tolerance .xx = ± 0.02
.xxx = ± 0.005

Pin Connections	
Pin#	NTS01-0540DS
1	+Vin
2	+Vin
3	NP
10	Go2
11	NC
12	+Vo2
13	+Vo1
14	NP
15	Go1
22	NP
23	-Vin
24	-Vin