

Features

- Toroid core for high coupling and low radiation
- Complies with IEC/UL 60664-1 and IEC/UL 62368-1
- Reinforced insulation for working voltage up to 1200 VDC

HCTSM110103HAL HCT Transformer

Hi-Pot: 5000 VAC

Product Dimensions

13.5 ± 0.3 (.531 ± .012)

PIN 1

PIN

- Fully sealed and compact size
- Designed for isolation power supplies using TI SN6501 and SN6505B

DIMENSIONS

MM

(INCHES)

- Partial discharge test based on IEC 60664-1: 2000 V
- AEC-Q200 compliant
- RoHS compliant*

PIN 8

PIN 5

Additional Information

Click these links for more information:

PRODUCT	TECHNICAL LIBRARY	INVENTORY	<u>SAMPLES</u>	<u>CONTACT</u>

General Specifications

OCL (100 kHz / 1 V)
with Pin 2 and Pin 3 tied 80 μ H min.
Leakage Inductance (100 kHz / 0.1 V)
6.0 <i>µ</i> H max.
DCR
NP10.18 Ω max.
NP20.18 Ω max.
NS10.80 Ω max.
NS20.80 Ω max.
Turns Ratio (NS:NP)3.0 ± 3 %
Hi-pot (1 mÅ, 60 S)5000 VAC
Operating Temperature
40 °C to +125 °C
(Temperature rise included)
Storage Temperature (Component)
-40 °C to +125 °C
Clearance/Creepage Distance of
Primary to Secondary 11 mm min.
Partial discharge test based on
IEC 60664-1 2000 V
Moisture Sensitivity Level1
ESD Classification (HBM)N/A
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Packaging Specifications

Tape & Reel...... 200 pcs./13-inch reel

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*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

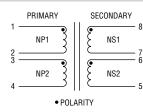
Users should verify actual device performance in their specific applications.

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PIN 5 (.006) PIN 5 0.3 x 0.6 (.012 ± .024) REF. (.693 ± .020) 2.0 ± 0.3 (.079 ± .012) PIN 5 6.0 ± 0.3 (.236 ± .012) PIN 8 How To Order HCTSM110103H A L - E Model (.079) AEC-Q200 Compliancy Designator **RoHS** Compliancy Designator Packaging

E = 200 pcs. per 13-inch Reel

Electrical Schematic





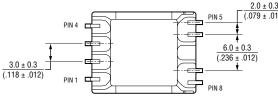
17.6 ± 0.5

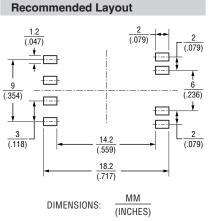
19.6 ± 0.5 (.772 ± .020)

HCTSM110103HAL

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HCTSM110103HAL HCT Transformer

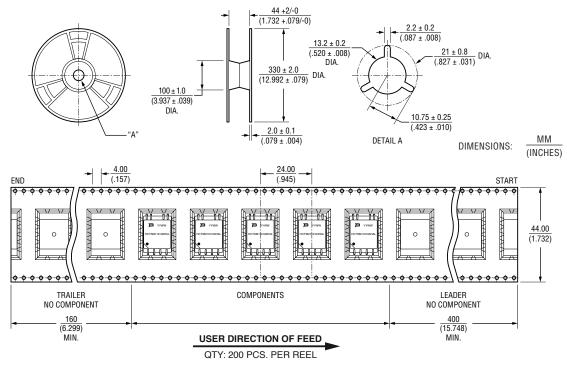
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Profile Feature	Pb-Free Assembly	
Average Ramp-Up Rate	3 °C / second max.	
PREHEAT: Temperature Min. (T _{smin}) Temperature Max. (T _{smax}) Time (T _{smin} to T _{smax})	150 °C 200 °C 60~180 seconds	
Liquidus Temperature (TL)	217 °C	
Time Above Liquidus Temperature (t_L)	60~150 seconds	
Peak Temperature (T _p)	245-250 °C	
Time within 5 °C of Actual Peak Temperature (t _p)	20~40 seconds	
Ramp-Down Rate from Peak Temperature	6 °C / second max.	
Time 25 °C to Peak Temperature (T_p)	8 minutes max.	
Do Not Exceed	250 °C	

Packaging Specifications

Reflow Solder Profile

Specifications and tolerances comply with EIA-481 requirements.



REV. 06/23

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