

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 1500 VDC
- Hi-Pot: 7640 VAC

- Designed for isolation power supplies using TI SN6501 and SN6505B
- UL recognized per UL 62368-1, File No.
- Partial discharge level up to 2250 V (Ut = 1800 V)
- RoHS compliant*

HCTSM150102HL High Clearance and Creepage Distance Transformer

Additional Information

Click these links for more information:











CONTACT

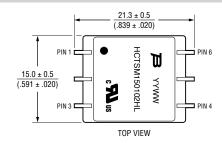
General Specifications

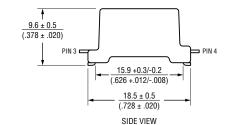
OCL (100 kHz / 1 V)80 μH min. Leakage Inductance (100 kHz/0.1 V)4.0 μH max.
DCR
Pin (1-3) 0.20 Ω max.
Pin (6-4) 0.35 Ω max.
Turns Ratio (Pin (6-4) : Pin (1-3))
2.0 ± 3 %
Rated Current (Parallel input)1 A
Volt Second Product25 VuS typ.
Partial Discharge Test
based on IEC 60664-1
2250 Vrms (Ut = 1800 Vrms)
Hi-pot (1 mA, 2 S)7640 VAC
Working Voltageup to 1500 VDC
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 15 mm min.
Level of Insulation
Reinforced for the working voltage
of 1500 VDC, Overvoltage Category II,
Pollution Degree 2, Altitude 2000 m
Moisture Sensitivity Level1
ESD Classification (HBM)N/A

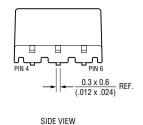
Packaging Specifications

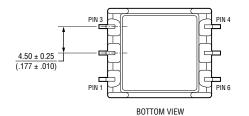
Tape & Reel.......... 200 pcs./13-inch reel

Product Dimensions



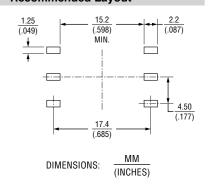




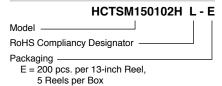




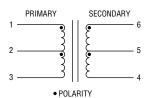
Recommended Layout



How To Order



Electrical Schematic





WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

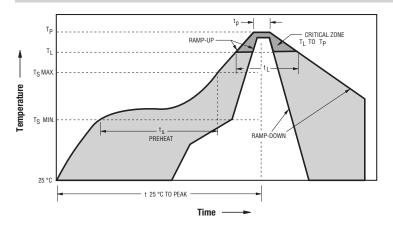
RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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HCTSM150102HL High Clearance and Creepage Distance Transformer

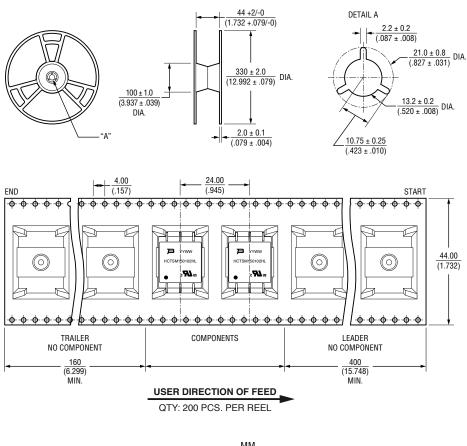
Reflow Solder Profile



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 (T _L)	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	260 °C

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



DIMENSIONS: $\frac{MM}{(INCHES)}$

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REV. 05/22

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