

Additional Information

TECHNICAL

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General Specifications

PRODUCT

DCR

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INVENTORY

OCL (100 kHz / 1 V)..... 80 µH min.

Pin (1-3) 0.20 Ω max.

Pin (6-4) 0.35 Ω max.

Hi-pot (1 mA, 2 S)......7640 VDC Working Voltage up to 1500 VDC

.....-40 °C to +125 °C

Primary to Secondary...... 15 mm min.

..... Reinforced for the working voltage

of 1500 VDC, Overvoltage Category II,

Moisture Sensitivity Level1

ESD Classification (HBM).....N/A

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

Packaging Specifications

Pollution Degree 2, Altitude 2000 m

Storage Temperature (Component) -40 °C to +125 °C

Clearance/Creepage Distance of

(Temperature rise included)

Rated Current (Parallel input).....1 A

Volt Second Product 25 VuS typ.

Leakage Inductance (100 kHz/0.1 V) 4.0 µH max.

Turns Ratio (Pin (6-4) : Pin (1-3))

Partial Discharge Test based on IEC 60664-1

Operating Temperature

Level of Insulation

SAMPLES

CONTACT

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 VDC

- Designed for isolation power supplies using TI SN6501 and SN6505B
- UL recognized per UL 62368-1, File No. E515965
- Partial discharge level up to 2250 V (Ut = 1800 V)
- RoHS compliant*

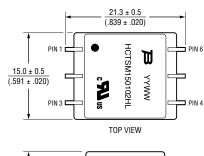
HCTSM150102HL High Clearance and Creepage Distance Transformer

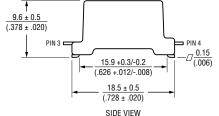
Product Dimensions

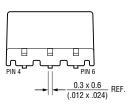
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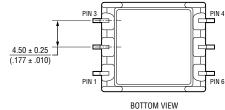
DIMENSIONS:

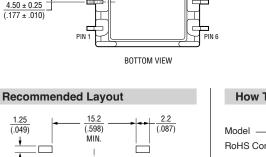






SIDE VIEW



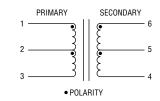


4.50

MM DIMENSIONS: (INCHES)

How To Order HCTSM150102H L - E **RoHS** Compliancy Designator Packaging E = 200 pcs. per 13-inch Reel, 3 Reels per Box

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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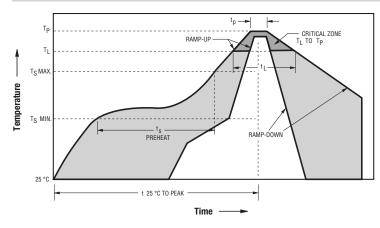
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MM

(INCHES)

HCTSM150102HL High Clearance and Creepage Distance 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 (Tp)	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

Reflow Solder Profile

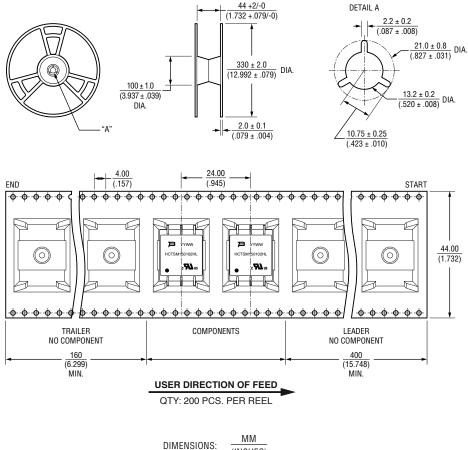
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HCTSM150102HL High Clearance and Creepage Distance Transformer

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Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



(INCHES)

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