

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
- Hi-Pot: 5000 VAC

- Fully sealed and compact size
- Designed for isolation power supplies using TI SN6501 and SN6505B
- Partial discharge test based on IEC 60664-1: 2000 V
- AEC-Q200 compliant
- RoHS compliant*

HCTSM110103HAL HCT Transformer

Additional Information

Click these links for more information:











TECHNICAL

INVENTORY SAMPLES

CONTACT

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 µH max. **DCR**

NP1 0.18 Ω max. NP2 0.18 Ω max. NS1 0.80Ω max. NS2 0.80Ω max. Turns Ratio (NS:NP).....3.0 ± 3 %

Hi-pot (1 mA, 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 Level.....1 ESD Classification (HBM).....N/A

Packaging Specifications

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

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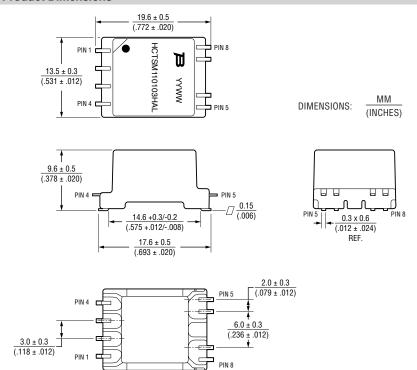
Asia-Pacific: Tel: +886-2 2562-4117

Email: asiacus@bourns.com EMEA: Tel: +36 88 885 877 Email: eurocus@bourns.com

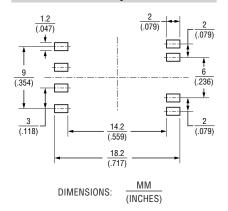
The Americas: Tel: +1-951 781-5500 Email: americus@bourns.com

www.bourns.com

Product Dimensions



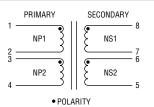
Recommended Layout



How To Order



Electrical Schematic



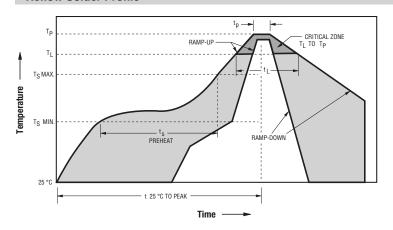


WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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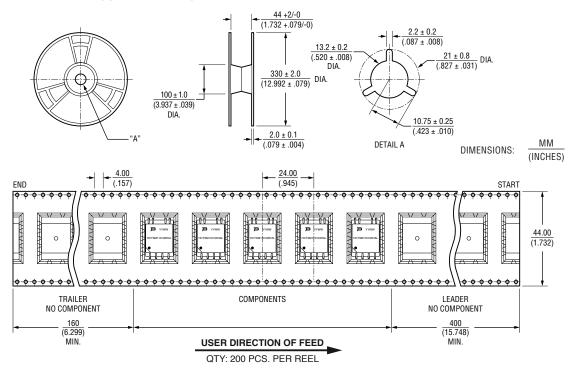
Reflow Solder Profile



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	250 °C

Packaging Specifications

Specifications and tolerances comply with EIA-481 requirements.



REV. 06/23

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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