

Features

- Full automation and compact size
- High voltage isolation
- Reinforced insulation for working voltage of 800 V
- Basic insulation for working voltage of 1000 V
- Creepage distance >8.0 mm
- Clearance distance >8.0 mm

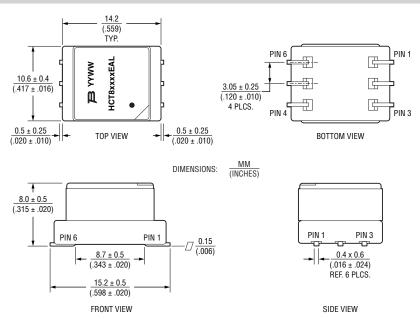
- Overvoltage Category II, Pollution Degree 2, up to 2 km above sea level
- AEC-Q200 compliant
- RoHS* and REACH Compliant

HCT8 Series High Clearance and Creepage Transformer

Electrical Specifications @ 25 °C

	Turns Ratio	Primary Inductance	Leakage Inductance @ 100 kHz, 0.1 V (all sec. pins shorted)		C (Ω) 5 °C	
Bourns Part Number	P(1-3): S(6-4)	1-3 (<i>µ</i> H min.)	1-3 (µH max.)	1-3 (Ω max.)	6-4 (Ω max.)	Hi-Pot Voltage
HCT80101EAL	1:1		0.8		0.55	
HCT80102EAL	1:2		0.6		1.5	
HCT80201EAL	2:1		1		0.35	
HCT80304EAL	3:4		0.6		0.7	
HCT80305EAL	3:5		0.6		1.5	5.0k VDC
HCT80308EAL	3:8	160	0.7	0.5	3	1 mA
HCT80403EAL	4:3		0.8		0.45	60 s.
HCT80803EAL	8:3		1.2		0.3	
HCT80809EAL	8:9		0.7		0.65	
HCT80910EAL	9:10		0.7		0.6	
HCT81017EAL	10:17		0.6		1.5	

Product Dimensions



DIMENSIONS:

(INCHES)

Additional Information

Click these links for more information:











PRODUCT

TECHNICAL INV

INVENTORY SAMPLES

LES CONTACT

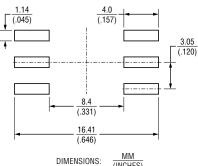
General Specifications

L (100 kHz / 1 V) -40 °C ~ +125 °C 160 μ H Volt Second on Half Primaries:					
(1-2 or 2-3)14 Vµs min.					
Rated Current350 mA					
Hi-Pot (1 mA, 60 S) 5000 VDC					
Reinforced Insulation					
for Working Voltage800 V					
Basic Insulation					
for Working Voltage1000 V					
Operating Temperature					
- 40 °C to +125 °C					
(Temperature rise included)					
Storage Temperature (Component)					
-25 °C to +85 °C					
Moisture Sensitivity Level1					

Materials

Core......Mn-Zn Ferrite
Wire Enameled/full-insulated copper

Recommended Layout







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

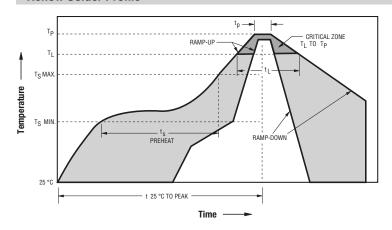
*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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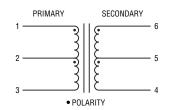
HCT8 Series High Clearance and Creepage Transformer

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 (Tp)	240-245 °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	245 °C		

Electrical Schematic



How To Order

HCT8xxxxE A L-E Model -AEC-Q200 Compliancy Designator -RoHS Compliancy Designator Packaging E = 400 pcs. per 13-inch Reel

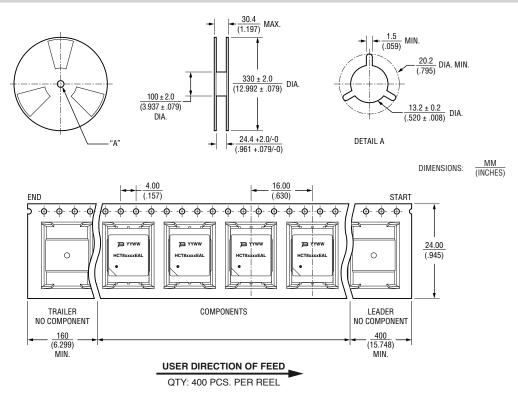
Packaging Specifications

Tape & Reel...... 400 pcs./13-inch reel

HCT8 Series High Clearance and Creepage Transformer

BOURNS

Packaging Specifications



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