

NEW!

SMT Isolation Transformers HTX8045



- 5K VDC Hi-Pot ideal for isolated SPI communication and gate drive applications
- Applications include Battery Management Systems and Industrial Networking
- 5.9 mm creepage and clearance Material Group IIIa ($175 \leq CTI < 400$)⁸
- Reduced board space compared to traditional core and bobbin types
- Designed and fabricated for systems mounted in harsh automotive conditions
- AEC-Q200 qualified

Core material Ferrite
Terminations RoHS compliant tin over nickel over silver glass frit.
Weight 0.53 – 0.54 g
Max part temperature +140°C
Ambient temperature -40°C to +125°C
Storage temperature Component: -40°C to +140°C.
 Tape and reel packaging: -40°C to +80°C
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
PCB washing Tested with pure water or alcohol only. For other solvents, see [Doc787_PCB_Washing.pdf](#)

Part number ¹	Turns ratio pri : sec	Primary inductance ² ±30% (µH)	Leakage inductance ³ max (µH)	DCR max ⁴ (Ohms)		Isolation ⁵ (VDC / Vrms)	Volt-time product ⁶ (V-µsec)	Capacitance ⁷ max (pF)
				Pri	Sec			
HTX8045-903CR_	1 : 2	90	0.40	0.47	0.83	5000 / 3535	25.9	18
HTX8045-164AR_	1 : 1	160	0.70	0.55	0.55	5000 / 3535	34.6	16

1. When ordering, please specify **turns ratio** and **packaging** codes:

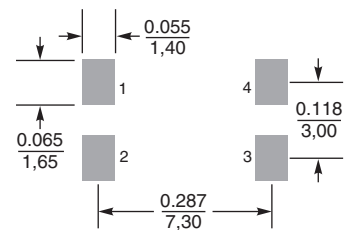
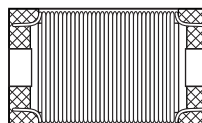
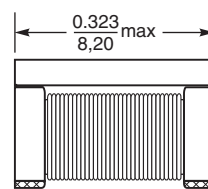
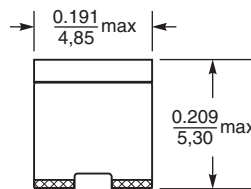
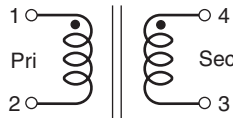
HTX8045-164ARC

Turns ratio: A = 1:1 C = 1:2

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (400 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1200 parts per full reel).

- Inductance measured at 100 KHz, 0.1 Vrms, 0 Adc on an HP4263B (or equivalent).
 - Leakage inductance is measured at 100 kHz, 0.1 Vrms on an HP4263B (or equivalent) with the other winding shorted.
 - DCR is measured on an HP4263B (or equivalent).
 - 5000 VDC / 3535 Vrms; one minute isolation (hipot) measured between primary and secondary.
 - Volt-time is for reference and calculated with 2400 Gauss.
 - Interwinding capacitance is measured at 250 kHz, 0.1 Vrms on AT3600/AT5600 across pins 1-4 with 2,3 open.
 - Insulation level may be Functional, Basic, or Reinforced depending on application variables such as working voltage, pollution degree, OVC, and altitude. Please contact [Coilcraft](#) for full details.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Recommended Land Pattern

Packaging 400/7" reel; 1200/13" reel Plastic tape: 24 mm wide, 0.40 mm thick, 8 mm pocket spacing, 5.5 mm pocket depth.