

NEW!

LLC Half-Bridge Transformers

For Isolated Gate Driver Bias Supply



- Low interwinding capacitance to minimize EMI and achieve high CMTI (Common Mode Transient Immunity)
- Optimized for isolated bias supplies for SiC and GaN gate drivers, such as the UCC25800-Q1 from Texas Instruments and the MPQ18913 from Monolithic Power Systems.
- Ideal for automotive OBC and traction Inverters in EV/HEV
- Cost-effective and fully-automated for the highest quality
- 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)

Packaging 400/7" reel; 1200/13" reel Plastic tape: 24 mm wide, 0.4 mm thick, 8 mm pocket spacing, 5.5 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see [Doc787_PCB_Washing.pdf](#)

Part number ¹	Turns ratio Pri : Sec	Inductance ² ±30% (µH)		DCR max ³ (Ohms)		Leakage L ⁴ ±20% (µH)		Isolation ⁵ (VDC / Vrms)	Irms ⁶ (mA)	Volt-time ⁷ product (V-µsec)	Cap ⁸ max (pF)
		Pri	Sec	Pri	Sec	Pri	Sec				
HTX8045C-753ARC	1 : 1	75	75	0.345	0.345	9.1	9.1	5000 / 3535	710	21.6	0.55
HTX8045C-104ARC	1 : 1	100	100	0.400	0.400	14.6	14.6	5000 / 3535	790	24.8	0.66
HTX8045C-114BRC	2.5 : 1	115	18	0.430	0.170	15.9	2.6	5000 / 3535	650	27.0	0.60
HTX8045C-124CRC	2 : 1	120	30	0.450	0.225	14.8	3.8	5000 / 3535	640	28.1	0.68
HTX8045C-104DRC	1.5 : 1	100	44	0.410	0.270	12.5	5.6	5000 / 3535	700	25.9	0.64
HTX8045C-104ERC	1.33 : 1	100	55	0.415	0.310	11.0	6.2	5000 / 3535	670	25.9	0.71
HTX8045C-104FRC	1.2 : 1	100	70	0.405	0.335	10.7	7.4	5000 / 3535	680	25.9	0.76

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

HTX8045C-104FRC

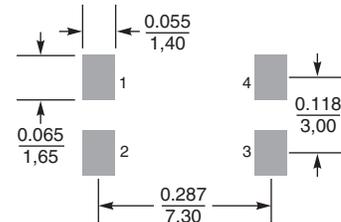
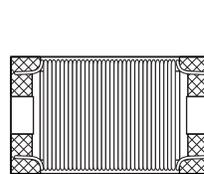
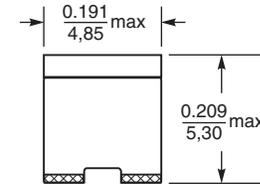
Turns ratio: A = 1:1 B = 2.5:1 C = 2:1 D = 1.5:1
E = 1.33:1 F = 1.2:1

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).
- DCR is measured on a HP4263B (or equivalent).
- Leakage Inductance LL is measured at 100 KHz, 0.1 Vrms with other windings shorted.
- 5000 VDC, 3535 Vrms; one minute isolation (hipot) measured between primary and secondary. 5.9 mm creepage and clearance Material Group IIIa (175 ≤ CTI < 400).
- Current that causes a 40°C rise from 25°C when applied to the primary winding with secondary current defined by the turns ratio.
- Volt-time is for reference and calculated with 2400 Gauss.
- Interwinding capacitance is measured at 250 kHz, 0.1 Vrms across pins 1-4 with pins 2 and 3 open.
- 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



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Document 1818-1 Revised 01/06/26

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