

xDSL Interface Transformers

For LT1794, LT1795
and LT1886



This product is not RoHS-compliant. Contact Coilcraft for current status or possible alternatives.

These transformers provide coupling and line isolation for xDSL interfaces using the Linear Technology LT1794, LT1795 and LT1886 amplifiers.

They feature very low leakage inductance, stable primary inductance from -40°C to +85°C and longitudinal balance optimized for the best overall performance at ADSL and HDSL2 transmission speeds.

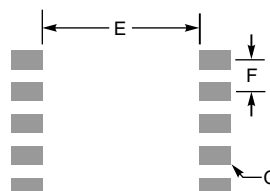
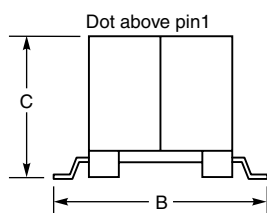
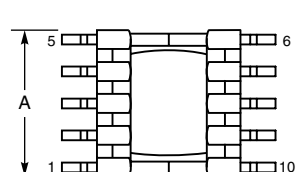
In addition to the standard models shown, Coilcraft can provide custom transformers with other turn ratios.

For free evaluation samples or to discuss custom designs, contact Coilcraft or visit www.coilcraft.com.

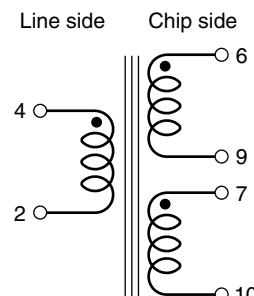
Part number	Style	Chip set	Line side inductance (mH)	Leakage inductance (μH) max	DCR max (Ohms)	
					Chip side	Line side
X8390-A	SMT	LT1794, LT1886	0.368 ±5%	11	0.841 (6-9, 7-10)	1.95 (4-2)
X8502-A	SMT	LT1794, LT1886	0.368 ±5%	11	0.895 (6-9, 7-10)	1.70 (4-2)
X8505-A	SMT	LT1886	0.368 ±5%	11	0.750 (6-9, 7-10)	1.85 (4-2)
X8504-A	SMT	LT1795	0.368 ±5%	11	0.875 (6-9, 7-10)	1.75 (4-2)

Part number	Dielectric strength (V)	Turns ratio ¹ line : chip	Longitudinal balance (dB) min	Designed to meet
X8390-A	1500	1 : 1	45 (20 kHz - 1.1 MHz)	UL 1459, 1950
X8502-A	1500	1 : 1.2	42 (20 kHz - 1.1 MHz)	UL 1459, 1950
X8505-A	1500	1 : 1.5	42 (20 kHz - 1.1 MHz)	UL 1459, 1950
X8504-A	1500	1 : 1.4	42 (20 kHz - 1.1 MHz)	UL 1459, 1950

1. Turns ratio is with the chip side windings connected in series.
2. All electrical specifications referenced to line side.
3. Operating temperature range -40°C to +85°C.
4. Electrical specifications at 25°C.



Recommended
Land Pattern



Chip side windings to be connected in series on the PC board

A max	B max	C max	E	F typ	G typ
0.530	0.699	0.500	0.590	0.098	0.061 × 0.050
13,46	17,75	12,70	14,99	2,50	1,55 × 1,27

Tape and reel 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

Coilcraft®

Specifications subject to change without notice.
Please check our website for latest information.

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1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>