



## VDSL Transformer For Broadcom BCM96358 and BCM6505

This line driver transformer has been designed for the Broadcom BCM96358M Reference design. It is used with their BCM6505 on the VDSL side of the router.

It features very low leakage inductance and 2500 Vrms primary-secondary isolation. Primary inductance is stable from -40°C to +85°C and the longitudinal balance is optimized for the best overall performance at the VDSL transmission speeds.

Coilcraft can also custom design a transformer for your specific application. To request free evaluation samples, please contact Coilcraft or visit www.coilcraft.com.

Part number <sup>1</sup>	Turns ratio line : chip	Chip side inductance <sup>2</sup> ±7% (µH)	Leakage inductance <sup>3</sup> max (µH)	DCR max (Ohms)		Longitudinal balance	THD
				chip side	line side	min (dB)	max (dB)
D1894-BL_	2:1	420.0	1.3	0.515 (1-3)	0.290 (7-6)	55.0 (10.0 MHz)	-75
				0.515 (2-4)	0.239 (8-5)		

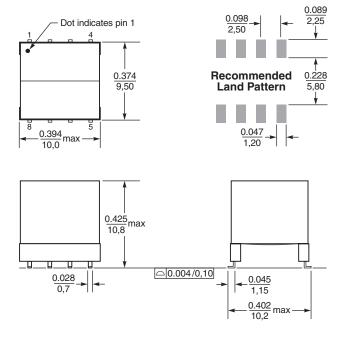
1. When ordering, please specify packaging code:

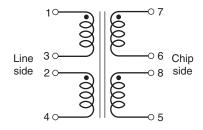
## D1894-BLD

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- 2. Inductance measured at 10 kHz, 0.1 Vrms, 0 Adc with windings connected in series.
- 3. Leakage inductance measured at 100 kHz, 0.1 Vrms, 0 Adc from pins 1 to 4 with all other pins shorted.
- 4. Capacitance measured at 100 kHz, 0.1 Vrms, 0 Adc from chip side to line side.
- 5. Operating temperature range -40°C to +85°C.
- 6. Electrical specifications at 25°C.





Terminations: Tin-silver over tin over nickel over phos bronze

Tape and reel: 350/13" reel 24 mm tape width

For packaging data see Tape and Reel Specifications section.



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

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