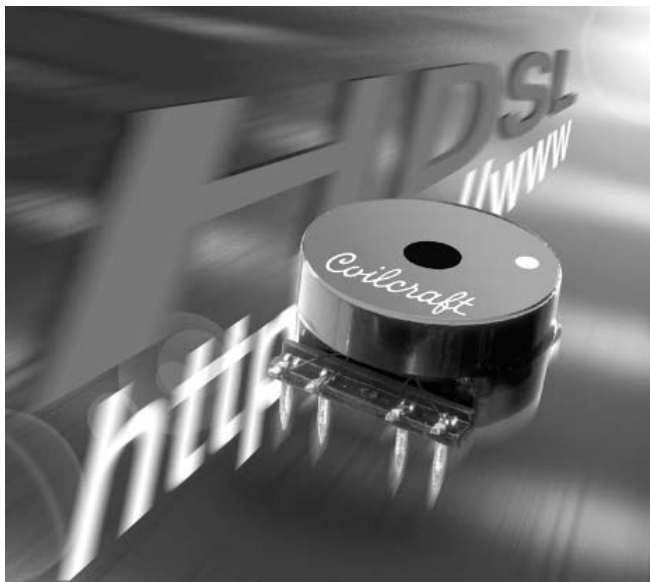


# HDSL Transformers



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

These HDSL transformers have been designed to work with a variety of specific transceiver chips to provide 2B1Q coded data transmission.

They're engineered for low leakage inductance and return loss as well as high line isolation. Longitudinal balance and THD are optimized for the best overall performance at a given transmission speed.

Coilcraft can also custom engineer a transformer to meet your specific requirements. For free evaluation samples, contact Coilcraft or visit [www.coilcraft.com](http://www.coilcraft.com).

## Specifications

Part number	Chip set	Data rate (kb/s)	Turns ratio chip:line	Primary inductance $\pm 6\%$ (mH)	Leakage inductance max ( $\mu$ H)	DCR max (Ohms)	
						Chip side	Line side
HD6788	Brooktree BT8952	784	2CT:1:1	3.0	20	4.4 (2-4)	2.2 (6-7, 8-9)
HD6789	Brooktree BT8952	1168	2CT:1:1	2.0	20	4.4 (2-4)	2.2 (6-7, 8-9)
HD6790	Brooktree BT8921	784	1CT:1:1	3.0	20	2.2 (2-4)	2.2 (6-7, 8-9)
HD6791	Brooktree BT8921	1168	1CT:1:1	2.0	20	2.2 (2-4)	2.2 (6-7, 8-9)
HD6792	Level One SK70704	784	1CT:1.8 CT	2.75	45	3.2 (2-4)	3.0 (6-8, 8-10)
HD6793	Level One SK70704	1168	1CT:1.8 CTS	2.06	40	2.0 (2-4)	2.0 (6-7, 9-10)

Part number	DC bias capacity (mA)	Dielectric strength min (V)	Return loss min (dB)	Longitudinal balance typ (dB)		THD typ (dB)
HD6788	160	1500	18 @ 40 - 200 kHz	69 @ 30 kHz	63 @ 196 kHz	-74 @ 100 kHz
HD6789	160	1500	16.5 @ 40 - 320 kHz	77 @ 30 kHz	63 @ 292 kHz	-74 @ 100 kHz
HD6790	80	1500	18 @ 40 - 200 kHz	68 @ 30 kHz	56 @ 196 kHz	-74 @ 100 kHz
HD6791	80	1500	16.5 @ 40 - 320 kHz	75 @ 30 kHz	62 @ 292 kHz	-74 @ 100 kHz
HD6792	80	1500	18 @ 40 - 200 kHz	60 @ 30 kHz	48 @ 196 kHz	-75 @ 5 kHz
HD6793	80	1500	16.5 @ 40 - 320 kHz	60 @ 30 kHz	48 @ 292 kHz	-74 @ 5 kHz

1. All electrical specifications referenced to line side.
2. Operating temperature range -40°C to +85°C.
3. Electrical specifications at 25°C.

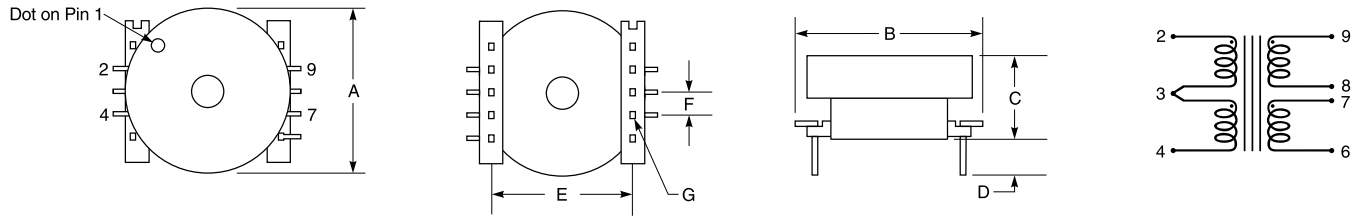
**Coilcraft**<sup>®</sup>

Specifications subject to change without notice.  
Please check our website for latest information. Document 201-1 Revised 02/11/08

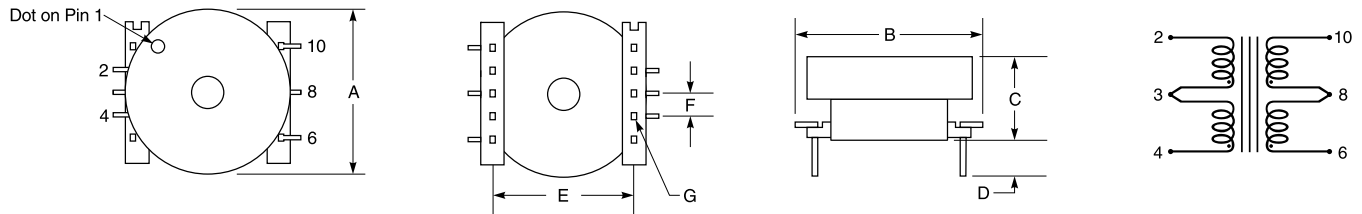
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# HDSL Transformers

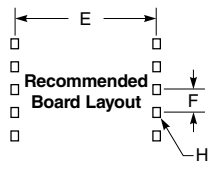
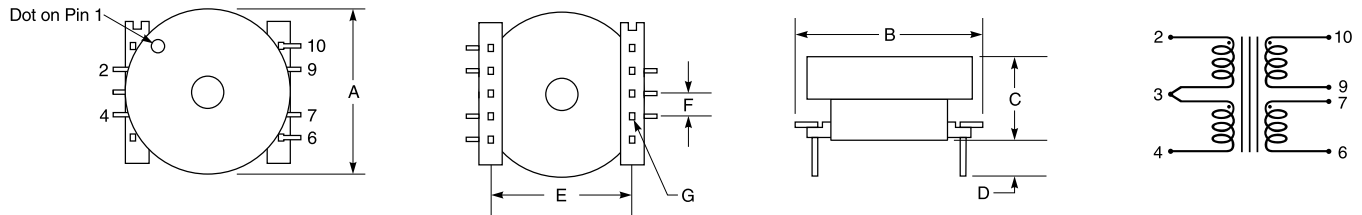
## HD6788, HD6789, HD6790, HD6791



## HD6792



## HD6793



Packaged 49 per tray

A max	B max	C max	D min	E	F typ	G typ	H typ
0.950	1.05	0.46	0.12	0.800	0.150	0.017 × 0.038	0.025 × 0.045 inches
24,13	26,7	11,7	3,0	20,32	3,81	0,43 × 0,97	0,64 x 1,14 cm



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