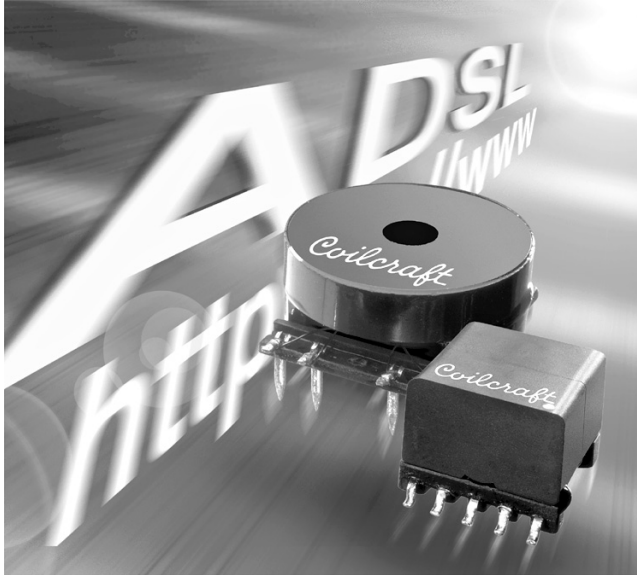


# ADSL Transformers For Globespan chip sets



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

These transformers have been designed to provide optimum performance with a variety of GlobeSpan ADSL chipsets.

They feature very low leakage inductance, stable primary inductance from  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  and longitudinal balance optimized for the best overall performance at the ADSL transmission speed.

For free evaluation samples or to discuss custom designs, contact Coilcraft or visit [www.coilcraft.com](http://www.coilcraft.com).

## SPECIFICATIONS

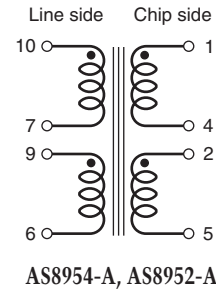
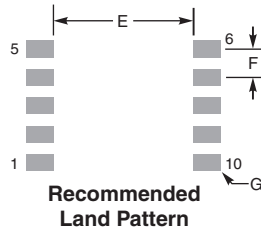
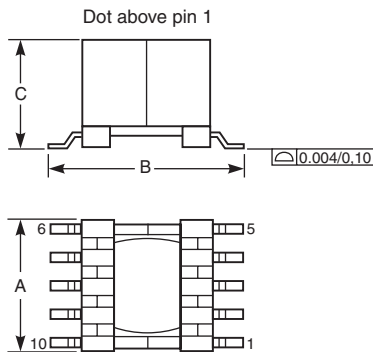
Part number	Style	Chip set	Inductance (mH)	Leakage inductance max ( $\mu\text{H}$ )	DCR max (Ohms)	
					Chip side	Line side
AS8952-A	SMT	Titanium Fourte G7266	$0.474 \pm 10\%^1$	5	0.48 (1-4, 2-5)	0.88 (10-7, 9-6)
AS8954-A	SMT	Titanium Fourte G7266RT	$0.440 \pm 5\%^1$	5	0.36 (1-4, 2-5)	0.94 (10-7, 9-6)
AS8330-A	SMT	Titanium G7000	$0.430 \pm 10\%^2$	10	0.29 (10-7, 9-6)	0.32 (1-4, 2-5)
AS8424-A	SMT	Globespan EL-1501	$0.407 \pm 5\%^2$	10	0.363 (10-7, 9-6)	0.429 (1-4, 2-5)
AS8343-A	Leaded	GlobeSpan	$0.940 \pm 10\%^3$	10	1.0 (1-3, 2-4)	0.750 (9-7, 10-8)
AS8344-A	Leaded	GlobeSpan	$0.410 \pm 10\%^3$	10	0.340 (1-3, 2-4)	0.340 (9-7, 10-8)
AS8345-A	Leaded	GlobeSpan	$0.940 \pm 10\%^3$	15	1.0 (1-3, 2-4)	1.0 (9-7, 10-8)
AS8346-A	Leaded	GlobeSpan	$0.410 \pm 10\%^3$	10	0.340 (1-3, 2-4)	0.80 (9-7, 10-8)

Part number	Dielectric strength (V)	Turns ratio line:chip	Capacitance max (pF)	Longitudinal balance min (dB)	THD max (dB)	Designed to meet
AS8952-A	1875	1.41:1	40	55 (20 kHz – 1.1 MHz)	-90 @ 20 kHz	UL 1950
AS8954-A	1875	2:1	40	55 (20 kHz – 1.1 MHz)	-90 @ 20 kHz	UL 1950
AS8330-A	1875	1:1	40	40 (20 kHz – 1.1 MHz)	-80 @ 20 kHz	UL 1459, 1950
AS8424-A	1875	1:1	25	55 (20 kHz – 1.1 MHz)	-85 @ 20 kHz	UL 1459, 1950
AS8343-A	1500	1:1:1.4:1.4	90	50 @ 40 kHz	-80 @ 20 kHz	
AS8344-A	1500	1:1:1:1	90	50 @ 40 kHz	-80 @ 20 kHz	
AS8345-A	3000	1:1:1.4:1.4	90	55 @ 40 kHz	-70 @ 20 kHz	UL 1950
AS8346-A	3000	1:1:1:1	90	55 @ 40 kHz	-65 @ 20 kHz	UL 1950

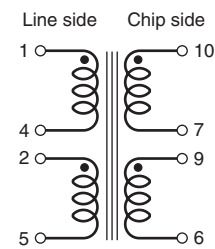
1. Measured across pins 10-6 with pins 7-9 shorted.
2. Measured across pins 1-5 with pins 2-4 shorted.
3. Measured across pins 1-4 with pins 2-3 shorted.
4. All electrical specifications referenced to line side.
5. Operating temperature range  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
6. Electrical specifications at  $25^{\circ}\text{C}$ .

# ADSL Transformers for Globespan Chip Sets

AS8954-A, AS8952-A, AS8330-A, AS8424-A



AS8954-A, AS8952-A



AS8330-A, AS8424-A

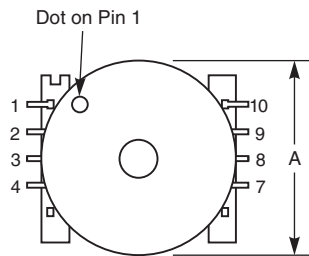
Note: For AS8424-A, pin 3 is removed after assembly.

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

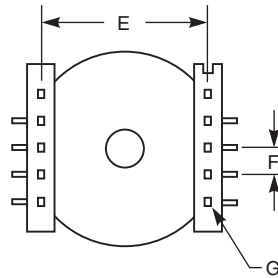
### Packaging

**AS8954-A, AS8330-A, AS8424-A:** 100 parts per tray  
**AS8952-A:** 175 per 13" reel; Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

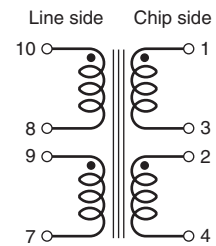
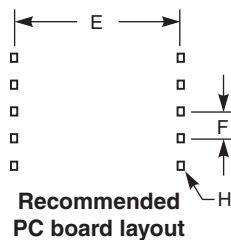
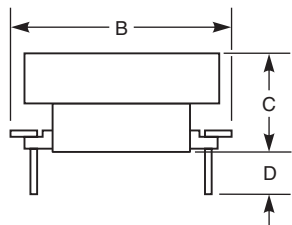
AS8343-A, AS8344-A, AS8345-A, AS8346-A



Top view



Bottom view



A max	B max	C max	D min	E	F typ	G typ	H typ
0.930	1.05	0.46	0.12	0.800	0.150	0.017 × 0.038	0.045 × 0.025
23,62	26,7	11,7	3,0	20,32	3,81	0,43 × 0,97	1,14 × 0,64

Packaging 49 parts per tray



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