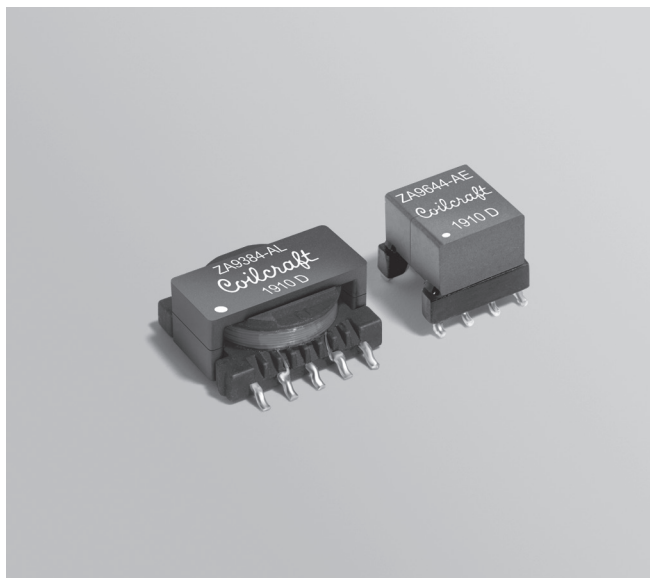




Flyback Transformers

For Analog Devices
ADP1032 & ADP1034 Isolated
Micropower Management Unit



- Optimized for use with the isolated flyback regulator in Analog Devices ADP1032 and ADP1034 isolated micropower management unit.
- Ideal for wide input voltage range 4.5 V to 60 V
- Select the ZA9384-AL for higher efficiency and the ZA9644-AE for a smaller package size
- Low leakage inductance

Core material Ferrite

Terminations RoHS tin-silver-copper (95.5/3.8/0.7) over tin over nickel over phos bronze.

Weight ZA9384-AL 2.7 g, ZA9644-AE 1.985 g

Ambient temperature -40°C to +85°C

Maximum part temperature +125°C

Storage temperature Component: -40°C to +125°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)

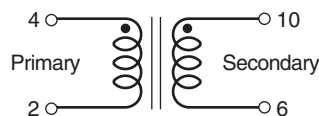
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Input voltage (V)	L ² ±10% (µH)	L ³ at 0.4 A min (µH)	Leakage L ⁵ max (µH)	DCR max (Ohms)		Turns ratio pri:sec	Isolation ⁶ (Vrms)	Output	
					pri	sec				
ZA9384-ALD	4.5 – 60	470	423	0.80	4.0	1.1	1.6	1:1	2000	6 – 28 V, 180 mA
ZA9644-AED	4.5 – 60	470	376	0.49	3.8	1.8	1.8	1:1	2000	6 – 28 V, 180 mA

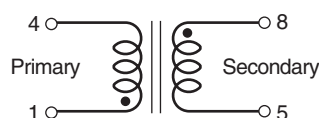
- Packaging:** D=13" machine ready reel. EIA-481 embossed plastic tape. Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance is for the primary, measured on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0 Adc.
 - Minimum inductance is for the primary, measured on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0.4 Adc.
 - DC current that causes an inductance drop of 30% (typ) from its value without current
 - Leakage inductance is for the primary with secondary winding shorted together.
 - Isolation (hipot) measured between windings for one minute
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Schematic

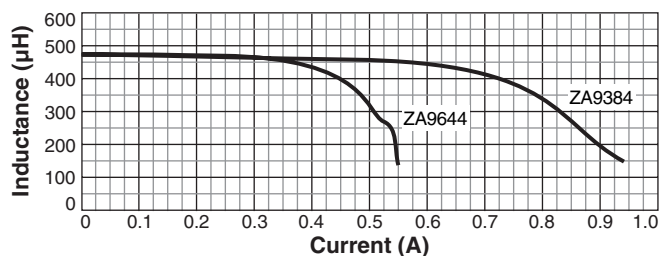
ZA9384-AL



ZA9644-AE



L vs Current



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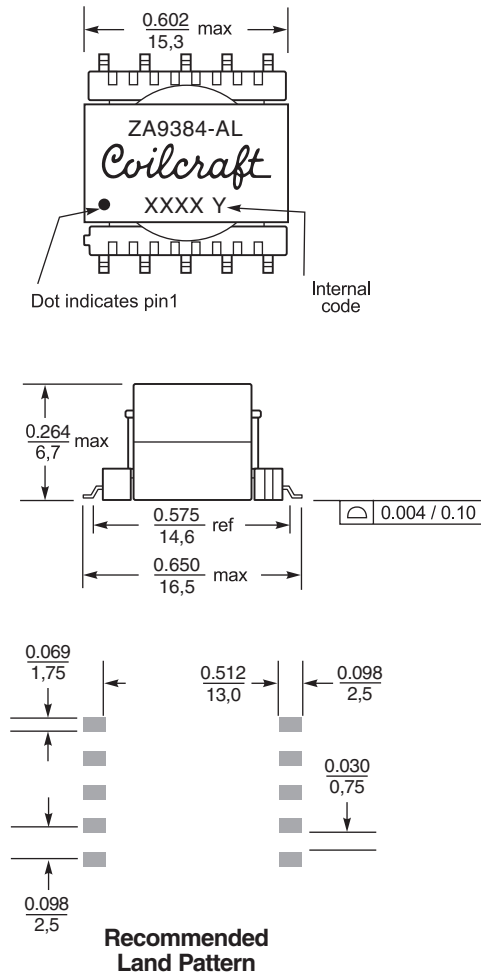
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



Transformers for Analog Devices ADP1032

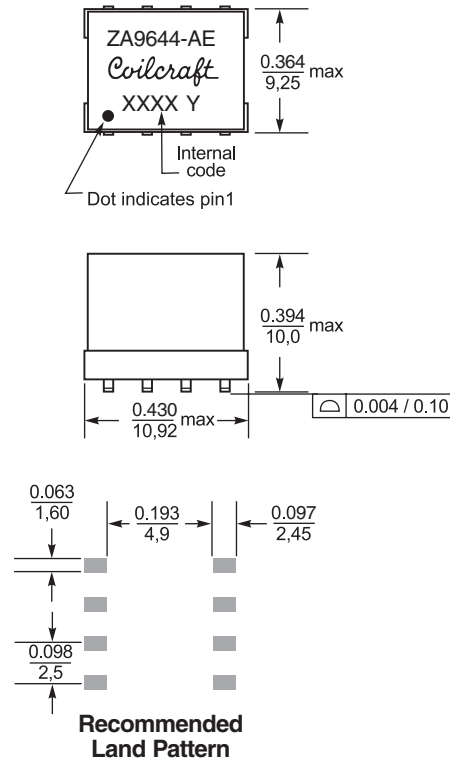
ZA9384-AL



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Packaging 400 per reel, 13" reel Plastic tape: 32 mm wide, 0.40 mm thick, 20 mm pocket spacing, 7.6 mm pocket depth

ZA9644-AE



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Packaging 300 per reel, 13" reel Plastic tape: 32 mm wide, 0.42 mm thick, 20 mm pocket spacing, 10.69 mm pocket depth



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