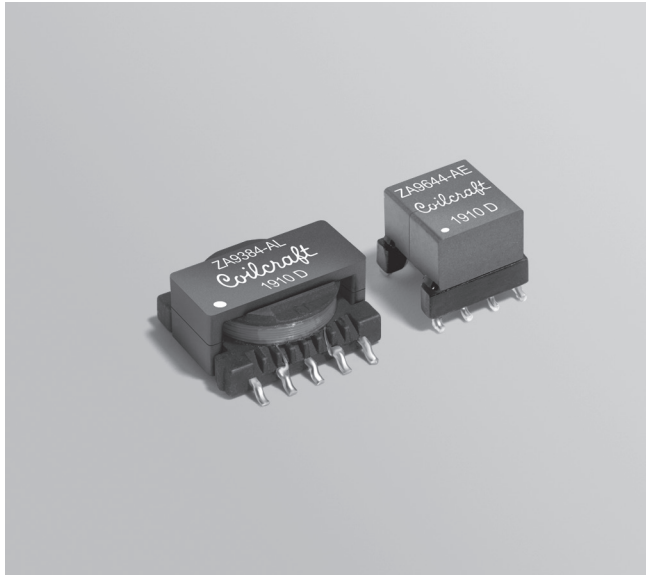


NEW!

Flyback Transformers

For Analog Devices ADP1032
Isolated Micropower
Management Unit



- Optimized for use with the isolated flyback regulator in Analog Devices ADP1032 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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

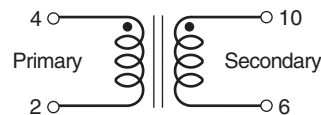
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

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

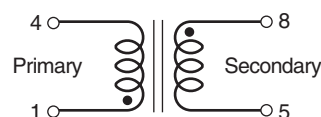
- Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape.
 - Inductance is for the primary, measured on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0 Adc.
 - Minimum inductance is for the primary, measured on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0.4 Adc.
 - DC current that causes an 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

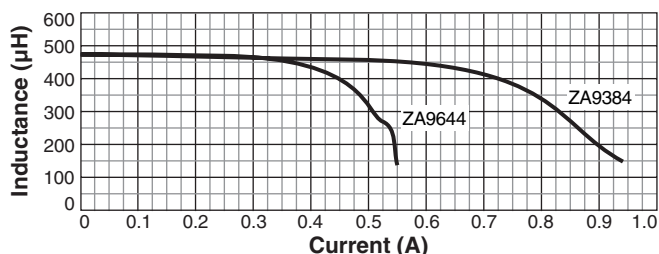
ZA9384-AL



ZA9644-AE



L vs Current



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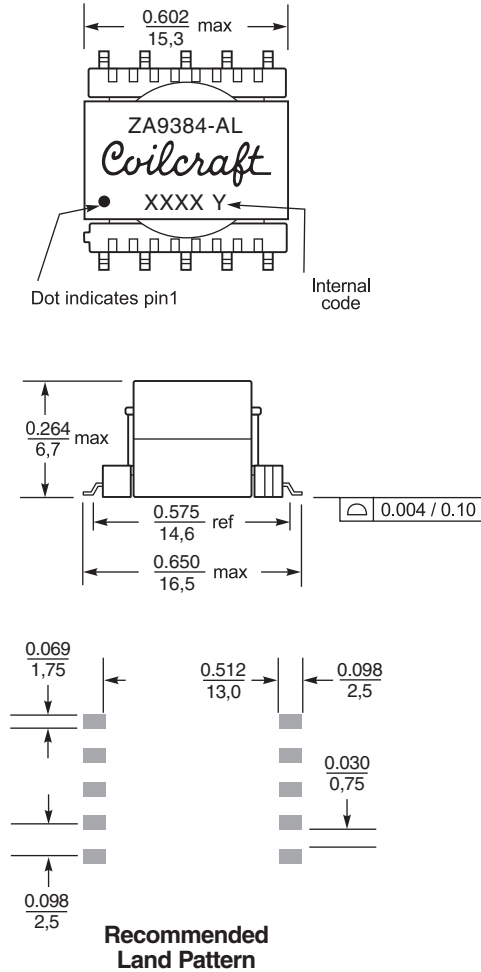
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Transformers for Analog Devices ADP1032

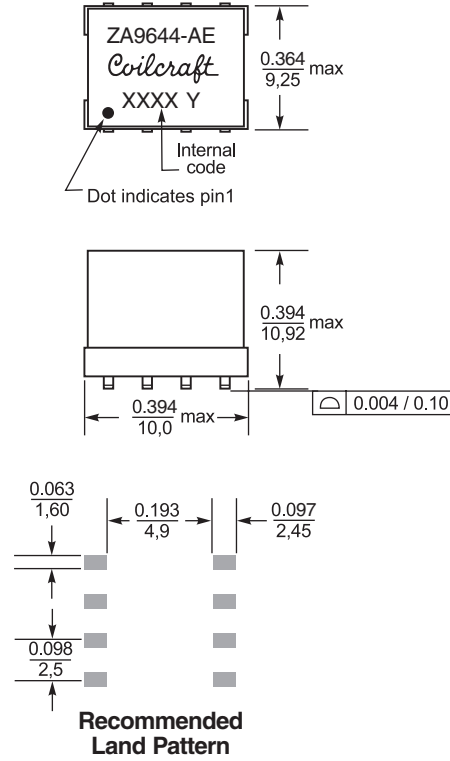
ZA9384-AL



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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