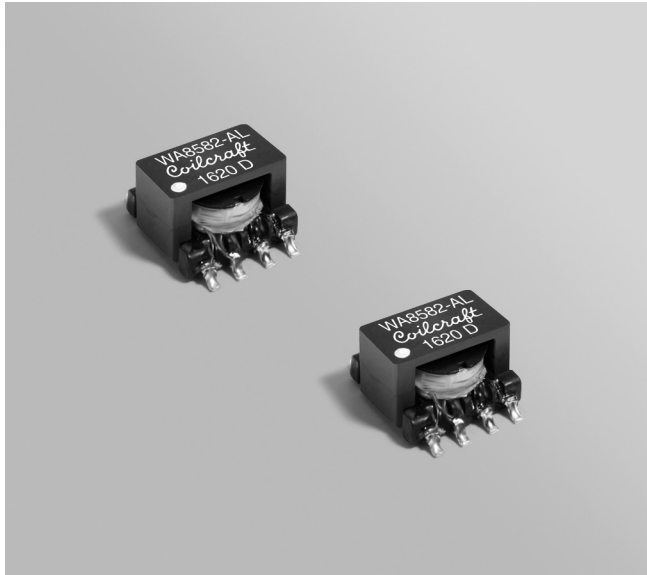




Isolation Transformer – WA8582-AL



- AEC-Q200 Grade 1 (–40°C to +125°C)
- Designed specifically for automotive active cell balance battery management system
- 1500 Vrms, one minute primary to secondary isolation (hipot); 500 Vrms winding to core isolation
- Suitable for power driver ICs, low power isolation, gate drive and other power applications

Core material Ferrite
Terminations Tin-silver over tin over nickel over phos bronze
Weight 0.95 g
Ambient temperature –40°C to +125°C
Maximum part temperature +165°C (ambient + temp rise)
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)
 10.06 per billion hours / 9.940E+07 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	Pri / sec voltage	Inductance ² ±25% (µH)	DCR max (Ohms) ³		Volt-time product ⁴ (V-µsec)	Power ⁵ (W)	Turns ratio pri : sec
			pri	sec			
WA8582-AL_	5.0 V to 5.0 V	136.8	0.310	0.475	22.7	2.0	1 : 1.33

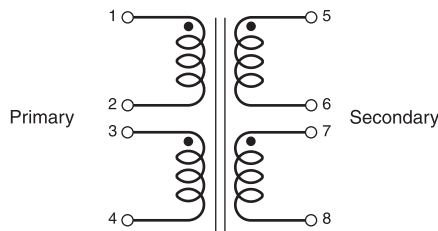
1. When ordering, please specify a **packaging** code:

WA8582-ALD

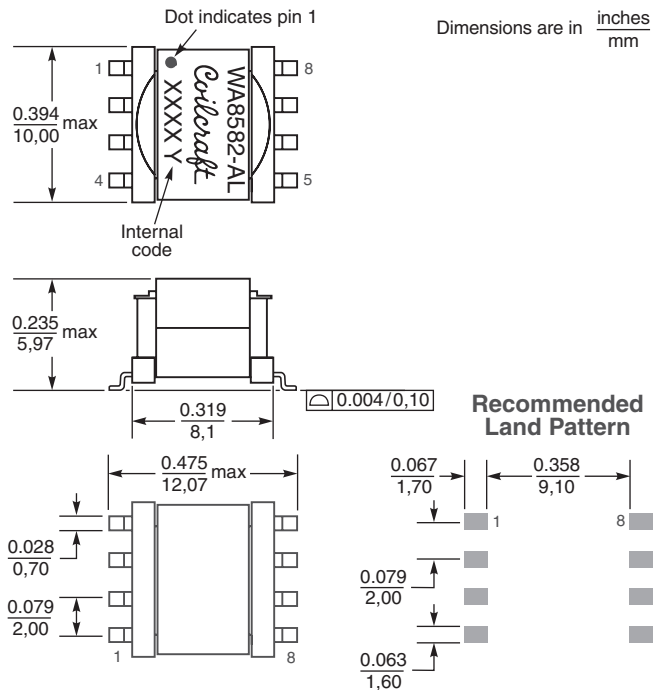
Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (600 per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

- Inductance is for the primary, measured from pins 1–2 at 250 kHz, 0.1 Vrms.
 - DCR is for each winding of the primary and secondary.
 - Volt-time product is for the primary, between pin 1 and 4, with 2 and 3 connected
 - Calculated output power based on 250 kHz operating frequency. Power varies depending on application
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Pin 2 and 3 and pin 6 and 7 to be connected on the PC board.



Packaging 600/13" reel; Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket depth



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