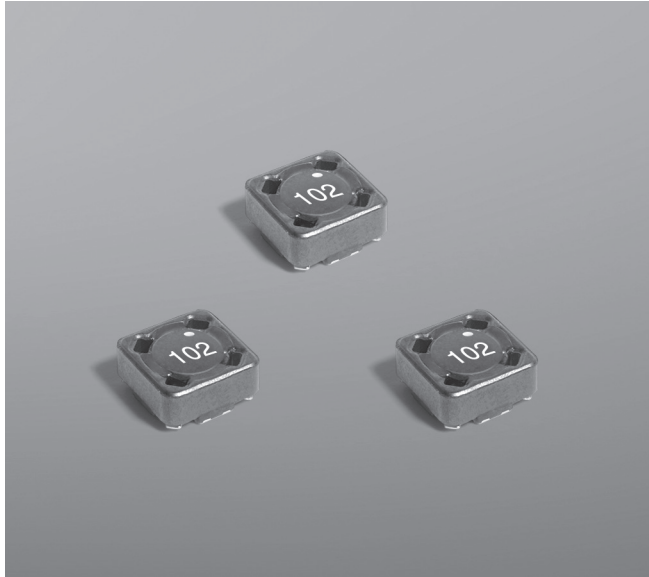




Coupled Inductor ZA9735-AE



- Developed for Haptic Driver solution HV56020/22 for Microchip Technology
- Designed for flyback topology in a haptic driver circuit
- Switching frequency: 300 kHz; V_{in} : 3.0 V; V_{out} : 230 V

Core material Ferrite

Weight 430 mg

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over phos bronze

Ambient temperature -40°C to $+85^{\circ}\text{C}$

Storage temperature Component: -40°C to $+125^{\circ}\text{C}$.

Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$

Winding to winding isolation 200 Vrms applied for 1 minute

Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 85% relative humidity)

Packaging 350/7" reel; 1200/13" reel Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 3.9 mm pocket depth

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

Part number ¹	Turns ratio	Inductance ² $\pm 20\%$ (μH)		DCR max (Ohms)		Leakage inductance ³ typ (μH)	Isat ⁴ (A)	Isolation ⁵ (Vrms)
		L1	L2	L1	L2			
ZA9735-AE_	1:10	1.0	100	0.022	1.7	0.065	8.0	200

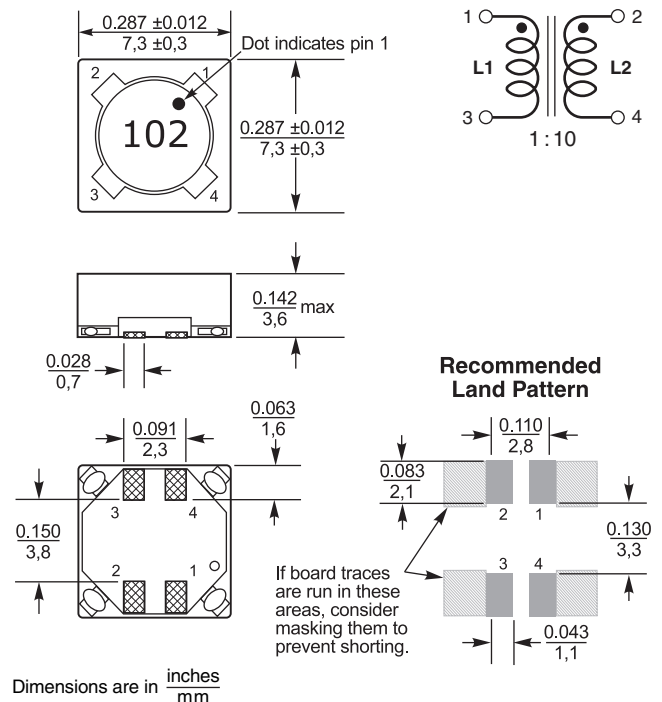
1. When ordering, please specify **packaging** code:

ZA9735-AEC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1200 parts per full reel).

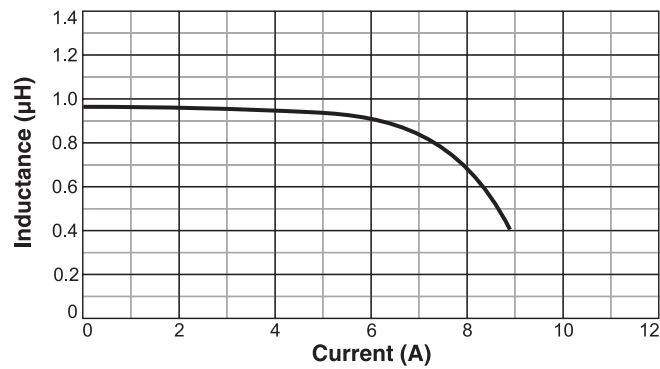
- Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
 - Leakage inductance is for L1 and is measured at 100 kHz, 0.1 Vrms with L2 shorted.
 - DC current applied to L1, at which the inductance drops 30% from its value without current.
 - 200 Vrms applied for 1 minute between primary and secondary windings.
 - Electrical specifications at 25°C .
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



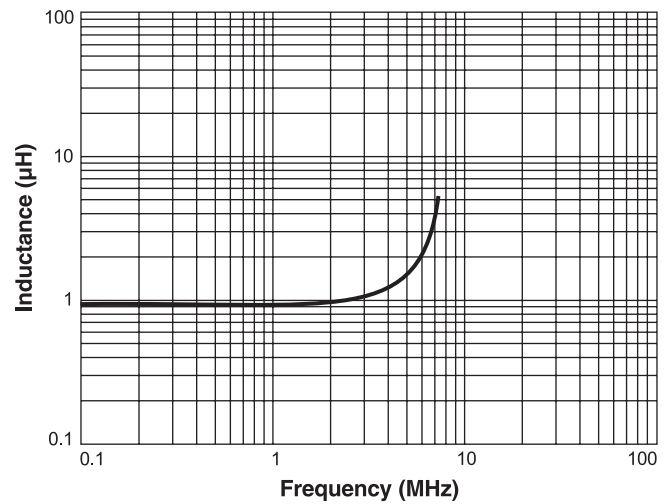


Coupled Inductor – ZA9735-AE

Primary L vs Current



Primary L vs Frequency



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