Shielded Coupled Inductor
For TI's LM5160 Dual Output Fly-Buck ${ }^{\text {TM }}$ Reference Design


- Published as TA7848-AE on Tl's LM5160 Dual Output Non-Isolated Fly-Buck ${ }^{\text {TM }}$ Reference Design, PMP10733
- Low leakage inductance and DCR; excellent current handling
- Based on the Coilcraft LPH miniature inductor series. Contact Coilcraft for other turns ratios.

Core material Ferrite
Environmental RoHS compliant, halogen free
Terminations RoHS compliant matte tin over nickel over silver. Other terminations available at additional cost.
Weight 850 mg
Ambient temperature $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$
Maximum part temperature $+125^{\circ} \mathrm{C}$ (ambient + temp rise)
Storage temperature Component: $-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$.
Tape and reel packaging: $-40^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
Resistance to soldering heat Max three 40 second reflows at $+260^{\circ} \mathrm{C}$, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ} \mathrm{C} /$ $85 \%$ relative humidity)
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

ing the need for multiple packaging codes. When ordering, simply change the last letter of your part number from $B$ to $C$.
D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).
2. Inductance is for the primary, measured at $100 \mathrm{kHz}, 0.1 \mathrm{Vrms}, 0 \mathrm{Adc}$ with the windings connected in parallel.
3. DCR for the primary is measured with the windings connected in parallel.
4. Leakage inductance is for the primary winding, measured with the secondary winding shorted.
5. Isolation (hipot) is measured from primary to secondary for one minute.
6. Electrical specifications at $25^{\circ} \mathrm{C}$.

## TA7848-AE Shielded Coupled Inductor

L vs Current



Packaging 250/7"reel; 1000/13" reel; Plastic tape: 16 mm wide, 0.28 mm thick, 12 mm pocket spacing, 4.95 mm pocket depth Recommended pick and place nozzle OD: 8 mm ; ID: 4 mm

