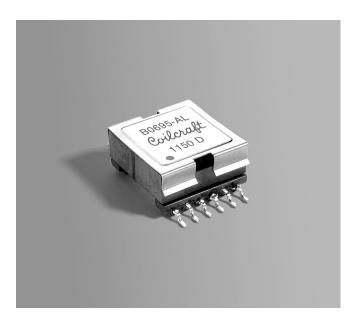


Flyback Transformer For National Semiconductor LM5020 PWM Controller



- Designed to operate up to 1 MHz with 36 –72 V input.
- 3.3 V. 4.5 A output with secondary windings connected in parallel. Bias output is 12 V.
- Ideal for 13 W, IEEE 802.3af-compliant, PoE applications.

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°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)

Packaging 175 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.9 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

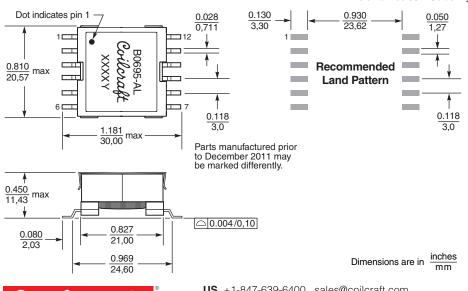
Part		= at Ipit	DCR max (Ohms) ⁴			Turns ratio ⁶	Capacitance ⁷	Ipk ³	Isolation8	
number ¹	±10% (µH)	±10% (µH)	pri	aux	sec	L (µH)̇⁵	pri:sec pri:bias	(pF)	(A)	(Vrms)
B0695-AL_	110	99.0	0.133	0.656	0.019	1.11	1:0.23 1:0.69	110	1.5	1500

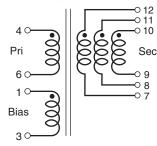
1. When ordering, please specify a packaging code:

B0695-ALD

- Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 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.
- 2. Inductance is for the primary, measured at 10 kHz, 0.1 Vrms, 0 Adc.
- 3. Ipk is the peak current drawn at minimum input voltage.
- 4. DCR for the secondary is per winding.
- 5. Leakage inductance measured between pins 4 and 6 with all other pins shorted.
- 6. Turns ratio is with the secondary windings connected in parallel.
- 7. Capacitance measured between pins 3 and 4 with other pins shorted.
- 8. Isolation is measured from the primary and bias to the secondary.
- 9. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





Secondary windings to be connected in parallel on PC board.



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