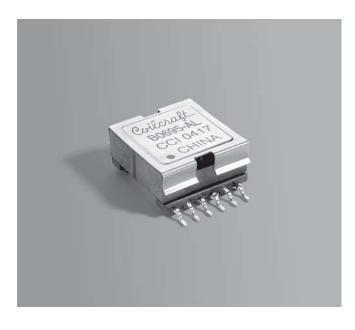


Flyback Transformer For National Semiconductor LM5020 PWM Controller



- 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.

Weight 12.8 g

Ambient temperature -40°C to +85°C

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

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 $<30^{\circ}$ 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

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 Only pure water or alcohol recommended

Part	L at 0 A ²	L at Ipk ³	DC	R max (0	Ohms)4	Leakage	Turns ratio ⁶	Capacitance ⁷	Ipk ³	Isolation8
number1	±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

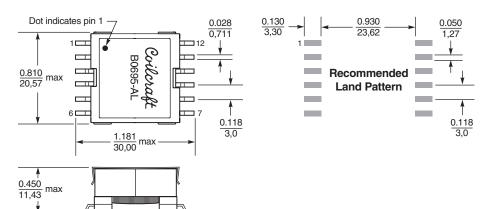
1. When ordering, please specify a packaging code:

B0695-AL D

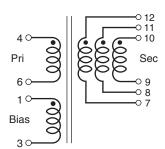
Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 per full reel).

- B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 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.
- 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.



0.004/0,10



Secondary windings to be connected in parallel on PC board.



0.827

21,00

Specifications subject to change without notice. Please check our website for latest information.

Document 398 Revised 10/28/08

0.080

2 03