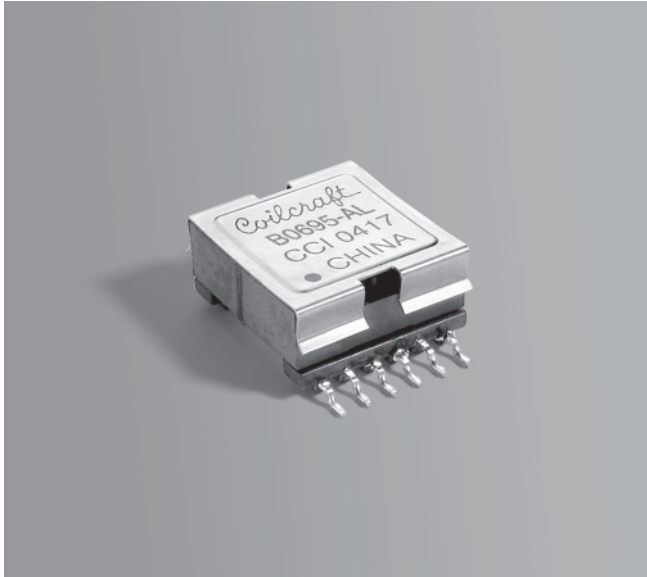




Flyback Transformer

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: –55°C to +85°C.
Packaging: –55°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)

Mean Time Between Failures (MTBF) 26,315,789 hours

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 number ¹	L at 0 A ² ±10% (µH)	L at Ipk ³ ±10% (µH)	DCR max (Ohms) ⁴			Leakage L (µH) ⁵	Turns ratio ⁶		Capacitance ⁷ (pF)	Ipk ³ (A)	Isolation ⁸ (Vrms)
			pri	aux	sec		pri : sec	pri : bias			
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 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.

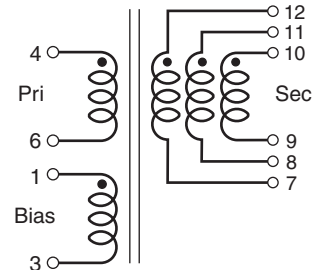
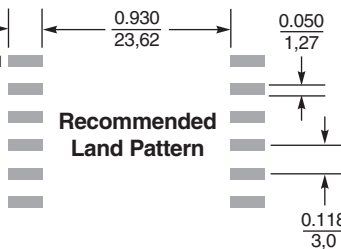
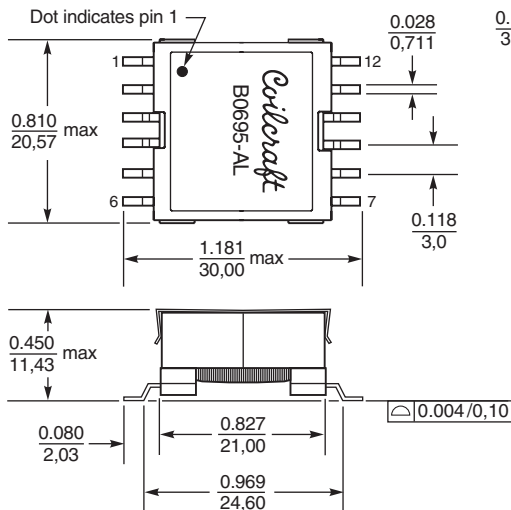
6. Turns ratio is with the secondary windings connected in parallel.

7. Capacitance measured between pins 3 and 4 with other pins shorted.

8. Isolation measured from pin 4 to pin 1 and from pin 4 to pins 7, 8, and 9.

9. Operating temperature range –40°C to +85°C.

10. Electrical specifications at 25°C.



Secondary windings to be connected in parallel on PCB board.



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

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