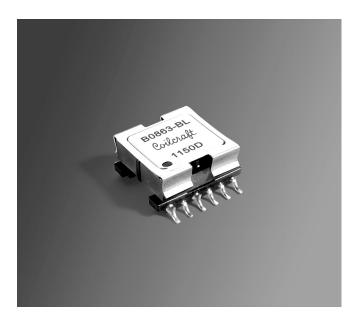


Poe Transformer For Maxim MAX5941B PoE Interface/PWM Controller



- · Designed for forward topology
- Operates at 275 kHz, at a 50% duty cycle

Core material Ferrite

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

Weight 5.6 g

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 200 per 13" reel Plastic tape: 44 mm wide, 0.35 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth

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

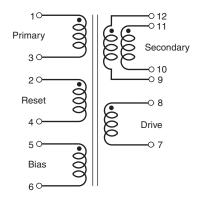
Part number¹	Inductance ² min (µH)	DCR max ³ (Ohms)	Leakage inductance⁴ max (µH)	Input voltage range (V)	Turns ratio⁵		Isolation ⁶	Output ⁷
B0863-BL_	165	0.061 (pri)	0.75	28 – 60	pri:sec		1500 Vrms	3.3 V, 4 A
		1.10 (reset)			pri:reset	1:1		
		1.29 (bias)			pri:drive	1:0.24		
		0.020 (drive)			pri:bias	1:1.3		
		0.008 (sec)			-			

1. When ordering, please specify a packaging code:

B0863-BLD

- Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (200 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. DCR for the secondary is measured with the windings connected in parallel.
- 4. Leakage inductance is for the primary and is measured with all other windings shorted.
- 5. Turns ratio is with the secondary windings connected in parallel.
- 6. Isolation is measured from the primary, reset and bias windings to the secondary and drive windings.
- 7. Output is with the secondary windings connected in parallel.
- 8. Electrical specifications at 25°C.

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

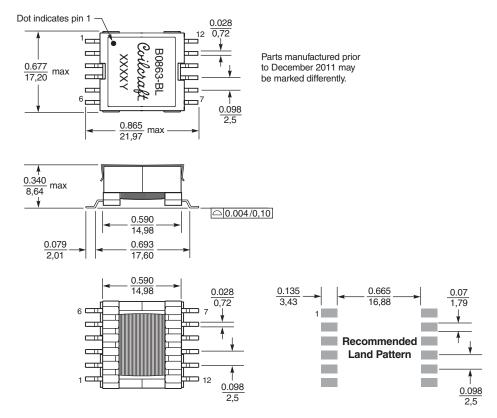


Secondary windings to be connected in parallel on PC board.





PoE Transformer for Maxim MAX5941B



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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