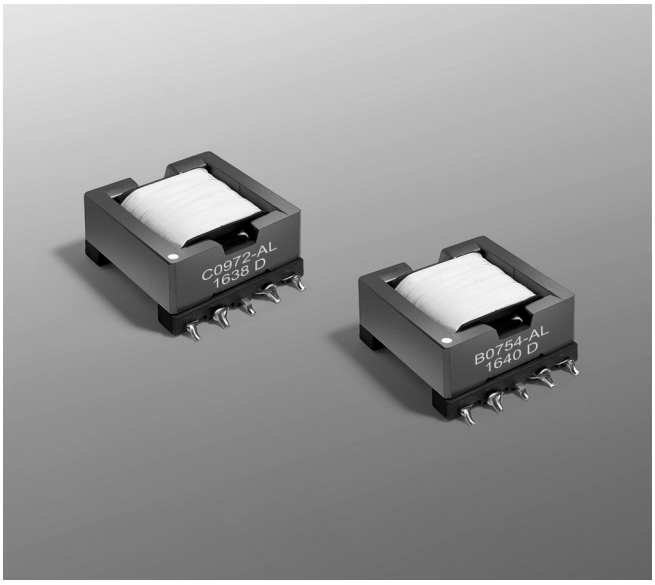
SMT Power Magnetics

For ON Semiconductor NCP1216A Controller



Coilcraft's C0972-AL transformer and B0754-AL inductor were developed specifically for the ON Semiconductor NCP1216A PWM Current-Mode Controller.

They are specified in application note AND8161/D along with Coilcraft's DS3316P-103 and DS3316P-102 shielded inductors. Refer to the separate data sheet for additional information about the DS3316 Series of inductors

The C0972-AL features very low DCR, excellent leakage inductance and 1500 Vrms isolation from the primary and auxiliary windings to the secondary.

The B0754-AL is the output inductor and features four separate windings connected in parallel to minimize power losses and to limit temperature rise.

To request free evaluation samples, contact Coilcraft or visit **www.coilcraft.com**.

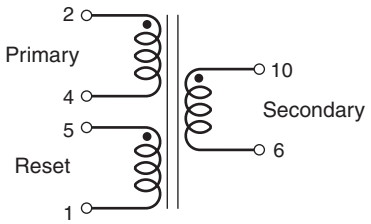
C0972-AL Transformer

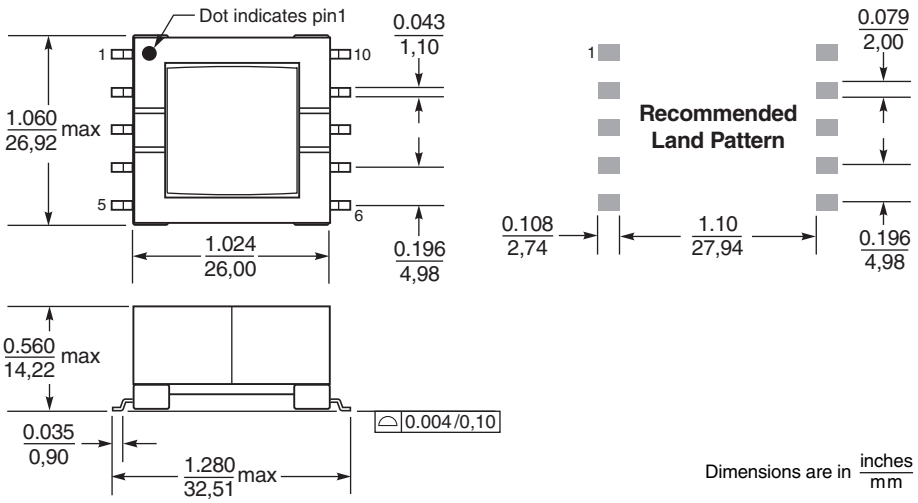
Part number	Output power (W)	Input voltage range (V)	Output voltage (V)	Output current (A rms)	Primary inductance[1] min (mH)	Leakage inductance[2] max (µH)	DCR max (Ohms)	Turns ratio pri:sec	Turns ratio pri:reset
C0972-AL	60	36 – 75	12	5.0	0.817	1.50	0.056 (pri) 0.031 (sec) 0.480 (aux)	1:0.91	1:1

2. Inductance measured between pins 2 and 4 at 10 kHz, 0.1 V, 0 Adc.
3. Leakage inductance measured between pins 2 and 4 at 100 kHz, 0.1 V, 0 Adc with all other pins shorted.
4. Operating temperature range: –40°C to +85°C.
5. Electrical specifications at 25°C.

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

Weight: 28.2 g
Terminations: Tin-silver (96.5/3.5) over tin over nickel over phos bronze
Packaging: 24 per tray





Dimensions are in inches / mm

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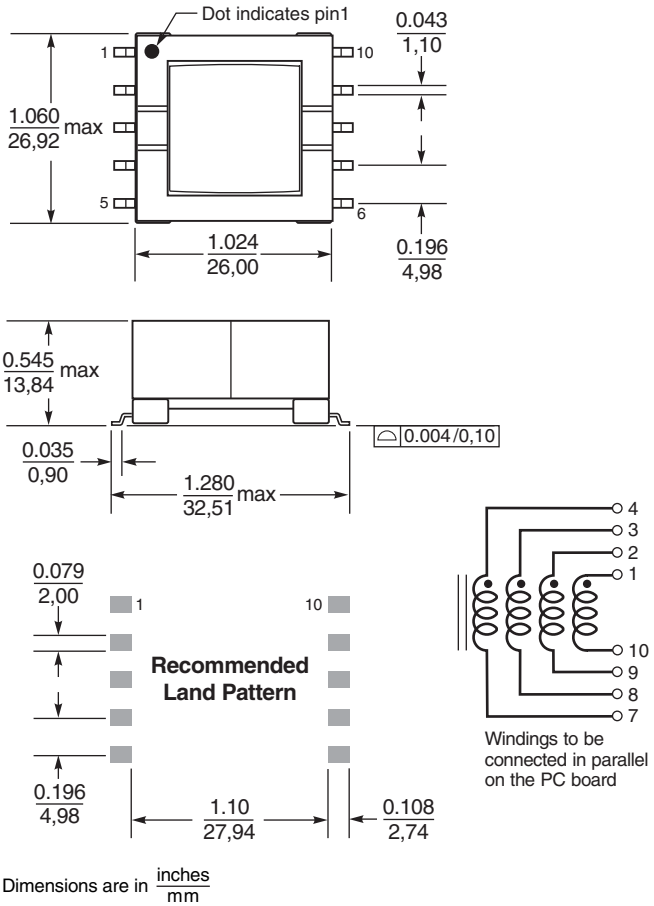
SMT Power Magnetics for ON Semiconductor NCP1216A

B0754-AL Inductor

Part number	Inductance[1] at 0 A ±10% (µH)	DCR max[2] (Ohms)	Isat[3] (A)	Irms[4] (A)
B0754-AL	100	0.282	8.0	4.8

1. Inductance measured at 10.0 kHz, 0.1 Vrms.
2. DCR is per winding.
3. Current at which inductance drops 10% (typ) from its value without current.
4. Average current for a 40°C temperature rise above 25°C ambient.
5. Operating temperature range –40°C to +85°C.
6. Electrical specifications at 25°C.

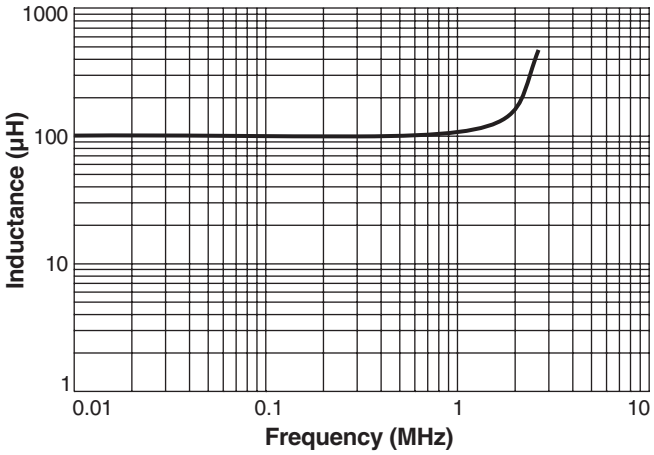
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



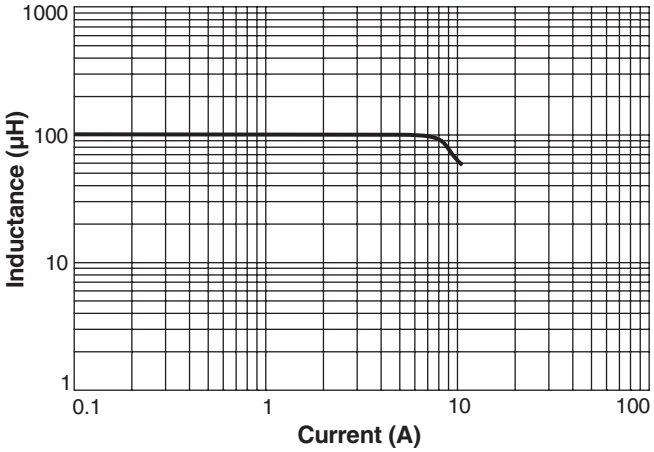
Dimensions are in inches / mm

Weight: 27.4 g
Terminations: Tin-silver (96.5/3.5) over tin over nickel over phos bronze
Packaging: 24 per tray

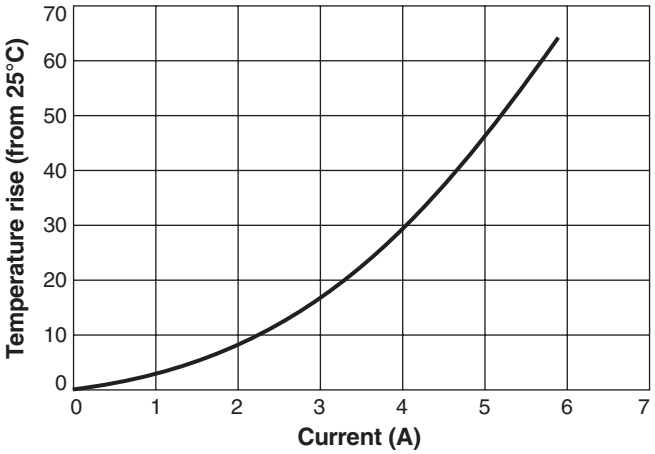
Typical L vs Frequency



Typical L vs Current



Temperature Rise vs Current



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