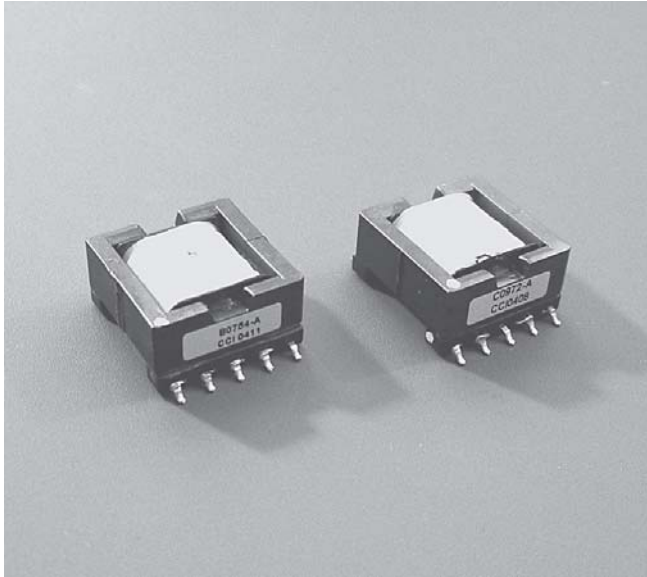




SMT Power Magnetics

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 V Isolation from the primary and auxiliary windings to the secondary.

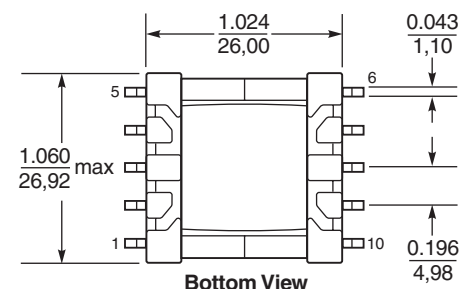
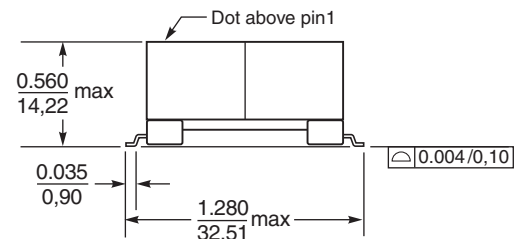
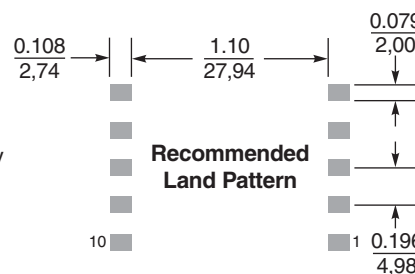
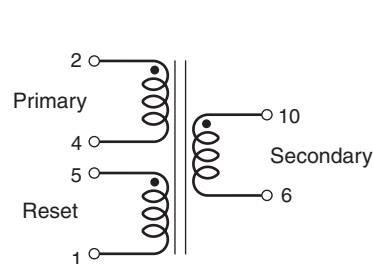
The B0754-AL is the output inductor and features four separate windings connected in parallel to minimize power losses and to limit temperature rise.

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 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

- Inductance measured between pins 2 and 4 at 10 kHz, 0.1 V, 0 Adc.
 - Leakage inductance measured between pins 2 and 4 at 100 kHz, 0.1 V, 0 Adc with all other pins shorted.
 - Operating temperature range: -40°C to +85°C.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Weight: 28.2 g
Terminations: Tin-silver over tin over nickel over phos bronze
Packaging: 24 per tray

Coilcraft®

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

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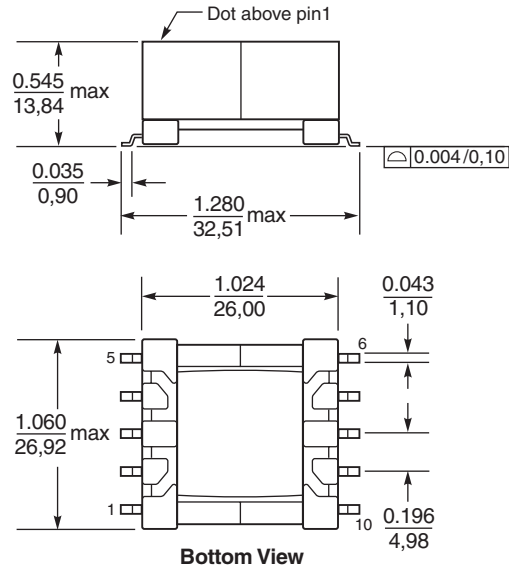


SMT Power Magnetics for ON Semiconductor NCP1216A

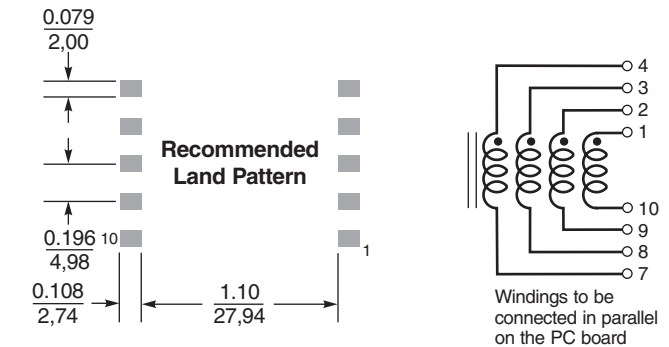
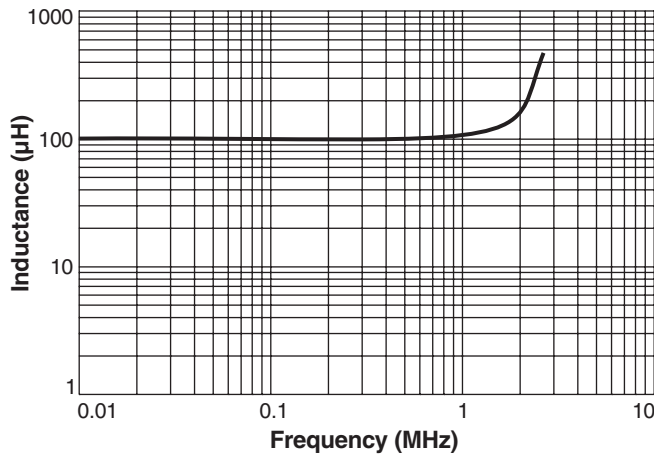
B0754-AL Inductor

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.

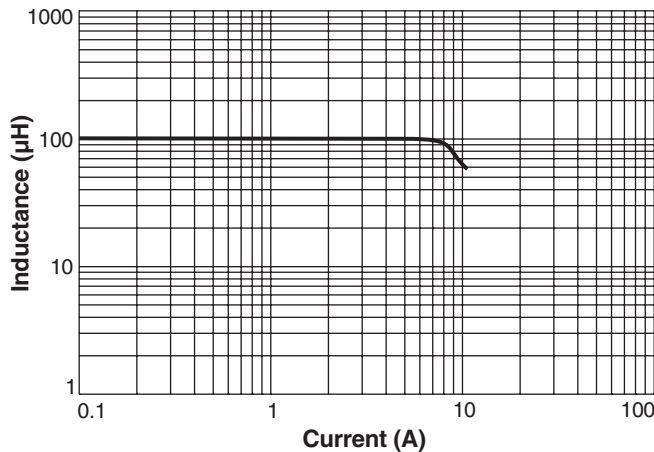


Typical L vs Frequency

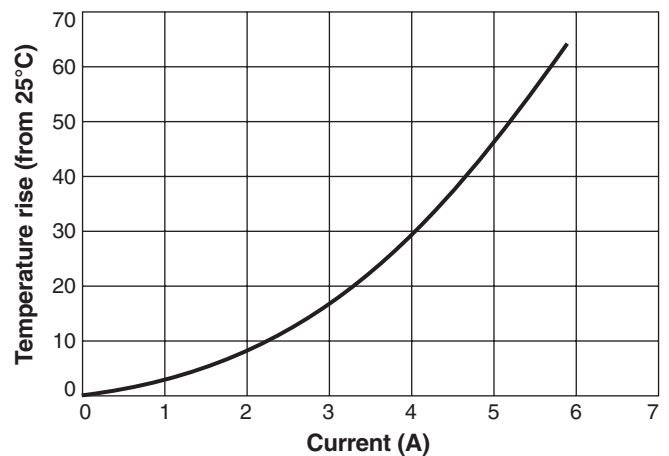


Weight: 27.4 g
Terminations: Tin-silver over tin over nickel over phos bronze
Packaging: 24 per tray

Typical L vs Current



Temperature Rise vs Current



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

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