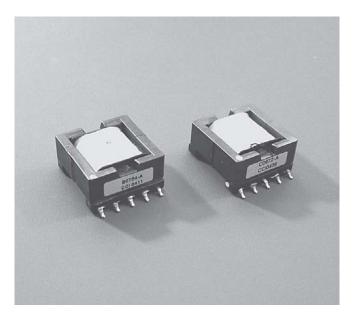


SMT Power Magnetics For ON Semiconductor NCP1216A Controller



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 ¹	Output power (W)	Input voltage range (V)	Output voltage (V)	Output current (A rms)	Primary inductance ² min (mH)	Leakage inductance ³ max (µH)	DCR max (Ohms)	Turns pri : sec	ratio pri: reset
C0972-AL_	60	36 – 75	12	5.0	0.817	1.50	0.056 (pri) 0.031 (sec)	1 : 0.91	1:1

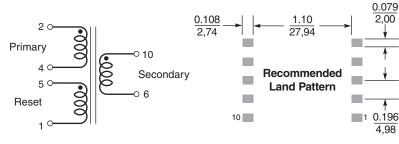
1. When ordering, please specify packaging code:

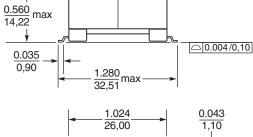
C0972-AL D

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (50 parts 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.
- 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.
- 4. Operating temperature range: -40°C to +85°C
- 5. Electrical specifications at 25°C.

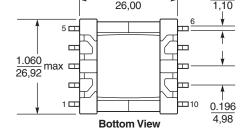
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





Dot above pin1

0.480 (aux)



 Weight:
 28.2 g

 Terminations:
 Tin-silver over tin over nickel over phos bronze

 Tape and reel:
 50/13" reel, 56 mm tape width

 For packaging data see Tape and Reel Specifications section.

Coilcraft

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

Document 418-1 Revised 08/29/07

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SMT Power Magnetics for ON Semiconductor NCP1216A

DU/ J+-ALI IIIuuciui										
	Part number ¹	Inductance ² at 0 A ±10% (µH)	DCR max ³ (Ohms)	Isat ⁴ (A)	Irms⁵ (A)					
	B0754-AL_	100	0.282	8.0	4.8					

1. When ordering, please specify packaging code:

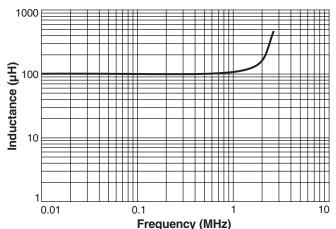
B0754-AL D

- Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (50 parts 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 10.0 kHz, 0.1 Vrms.
- 3. DCR is per winding.
- 4. Current at which inductance drops 10% (typ) from its value without current.
- 5. Average current for a 40°C temperature rise above 25°C ambient.
- 6. Operating temperature range -40°C to +85°C.
- 7. Electrical specifications at 25°C.

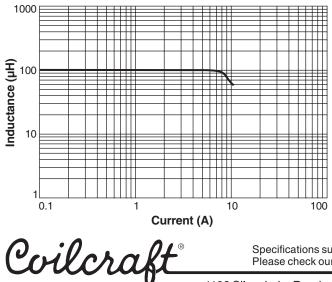
RO751-AI Inductor

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

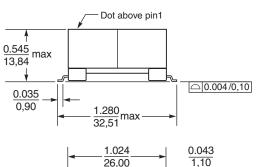
Typical L vs Frequency

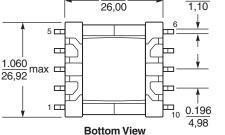


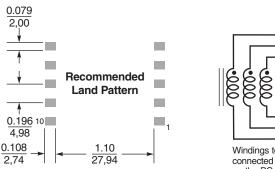
Typical L vs Current

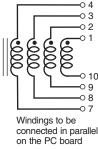




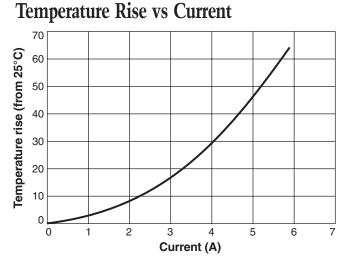








Weight: 27.4 g Terminations: Tin-silver over tin over nickel over phos bronze Tape and reel: 50/13" reel, 56 mm tape width For packaging data see Tape and Reel Specifications section.



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

Document 418-2 Revised 08/29/07

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