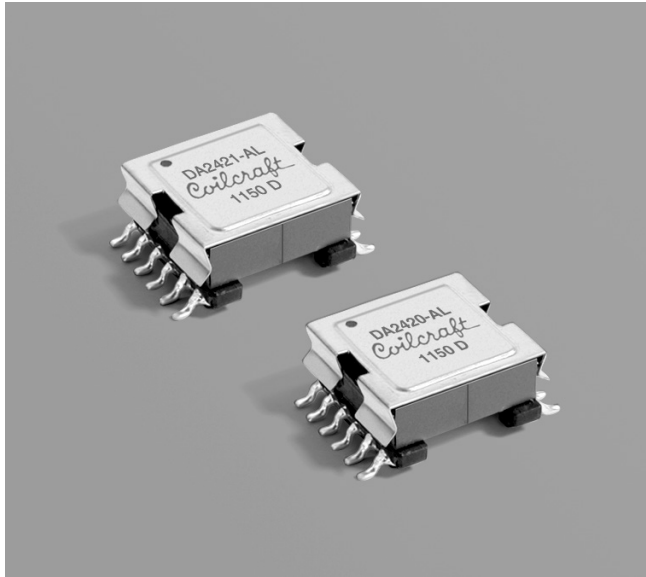


PoE Transformers

For ST Microelectronics
STE12PS PSE Power Controller



These surface mount flyback transformers were developed specifically for the ST Microelectronics STE12PS 12-Channel PSE Power Control Device.

They are designed to work with a 3.3 V input to provide a 12 V output. Isolation is 500 Vdc from each primary winding to the secondary winding.

Coilcraft can also design custom transformers with voltage, inductance and DCR values to meet your specific requirements.

For free evaluation samples, contact Coilcraft or order them on-line at www.coilcraft.com.

Part number ¹	L at 0 A ² ±10% (µH)	L at I _{pk} ³ min (µH)	DCR max (Ohms)			Leakage L max (µH) ⁴	Turns ratio ⁵ pri : sec	I _{pk} ³ (A)	Output
			1-5	2-6	12-7				
DA2420-AL_	330	297	0.756	0.886	5.920	6.00	1 : 2	2.0	12 V, 100 mA
DA2421-AL_	330	297	0.803	0.984	14.145	4.83	1 : 3	2.0	12 V, 100 mA

1. When ordering, please specify a **packaging** code:

DA2420-ALD

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 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 100 kHz, 0.1 Vrms, 0 Adc.

3. I_{pk} is the peak current drawn at minimum input voltage.

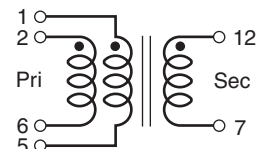
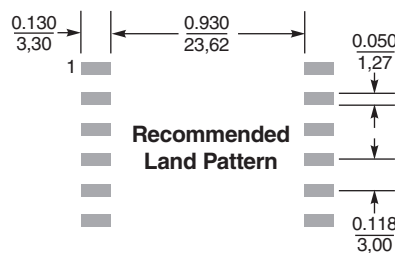
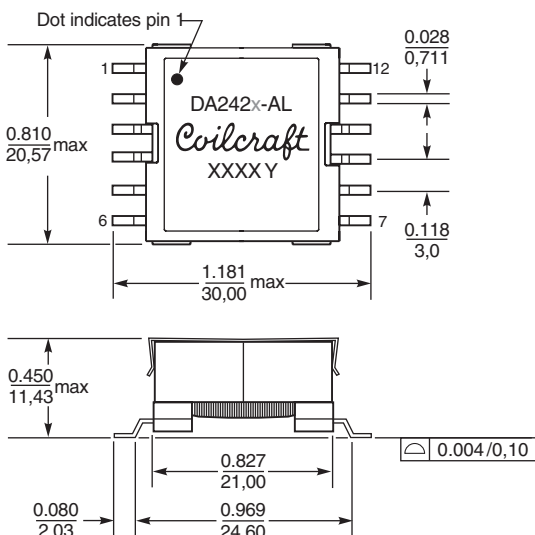
4. Leakage inductance measured on the primary windings with all secondary pins shorted.

5. Turns ratio is with the primary windings connected in parallel.

6. Operating temperature range -40°C to +125°C.

7. Electrical specifications at 25°C.

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



Primary windings to be connected in parallel on the PC board.

Weight 14.1 – 14.6 g

Terminations Tin-silver over tin over nickel over phos bronze

Tape and reel 175 per 13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.1 mm pocket depth



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com

UK +44-1236-730595 sales@coilcraft-europe.com

Taiwan +886-2-2264 3646 sales@coilcraft.com.tw

China +86-21-6218 8074 sales@coilcraft.com.cn

Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 544 Revised 12/14/11

© Coilcraft Inc. 2021

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.