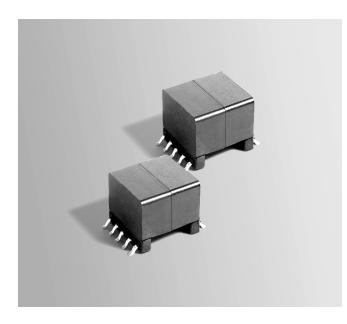


25 W Forward Mode Transformers



- · Designed for forward topology operating at 250 kHz
- Three different outputs: 3.3 V, 5.0 V and 12 V
- 33 57 V input; excellent for PoE applications
- 1500 Vrms, one minute isolation primary and bias to secondary

Core material Ferrite

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

Weight 6.5 – 6.7 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 175 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth

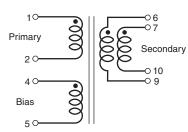
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

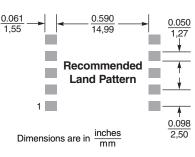
Part	Inductance ²	DCR max (mOhms) ³			Leakage inductance ⁴	Input voltage	Turns ratio⁵		
number ¹	nom (µH)	pri	sec	bias	max (µH)	range (V)	pri : sec	pri : bias	Output ⁶
FCT1-33M22SL	95	115	8.0	347	1.44	33 – 57	1:0.16	1:0.63	3.3 V, 7.2 A
FCT1-50M22SL	95	144	18.0	298	0.880	33 – 57	1:0.25	1:0.53	5.0 V, 4.8 A
FCT1-120M22SL	95	150	62.5	352	0.725	33 – 57	1 : 0.53	1 : 0.53	12 V, 2.0 A

1. When ordering, please specify a packaging code:

FCT1-50M22SLD

- Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 parts 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 measured at 250 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 the secondary shorted.
- 5. Turns ratio is with the secondary windings connected in parallel.
- 6. Output is with the secondary windings connected in parallel. Bias winding output is 12 V, 20 mA.
- 7. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

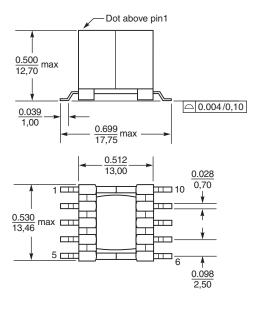




Secondary windings to be connected in parallel on PC board.



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 762 Revised 01/11/11

© 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.