

**NEW!**

15 W Forward Mode Transformers



- Designed for forward topology operating at 250 kHz
- Five different outputs from 3.3 V to 15 V; 36 – 75 V input
- 1500 Vrms isolation from primary and aux to the secondary
- FCT1-50M2SL was developed for use with **National Semiconductor LM5015** and is referenced on application note AN-1724 as CA2983-CL and on AN-1725 as GA2983-CL.

Core material Ferrite

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

Weight 6.9 – 7.1 g

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C.
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)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

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 Only pure water or alcohol recommended

Part number ¹	Inductance ² nom (μH)	DCR max (mOhms) ³			Leakage inductance ⁴ max (μH)	Input voltage range (V)	Turns ratio ⁵		Output ⁶
		pri	sec	aux			pri : sec	pri : aux	
FCT1-33M2SL_	705	55	6.0	320	0.510	36 – 75	1 : 0.24	1 : 0.67	3.3 V, 4.6 A
FCT1-50M2SL_	705	55	13.5	320	0.425	36 – 75	1 : 0.33	1 : 0.67	5.0 V, 3.0 A
FCT1-90M2SL_	705	55	33.5	320	0.340	36 – 75	1 : 0.57	1 : 0.67	9.0 V, 1.67 A
FCT1-120M2SL_	705	55	46.5	320	0.340	36 – 75	1 : 0.71	1 : 0.67	12 V, 1.25 A
FCT1-150M2SL_	705	55	72.5	320	0.310	36 – 75	1 : 0.90	1 : 0.67	15 V, 1.0 A

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

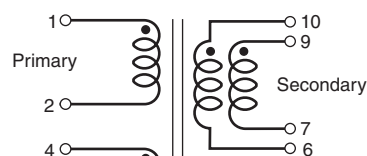
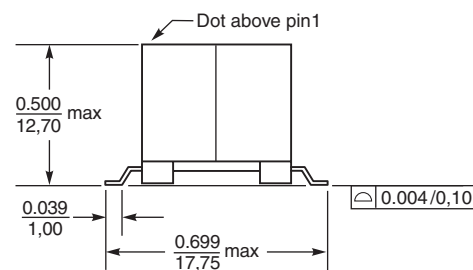
FCT1-50M2SLD

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

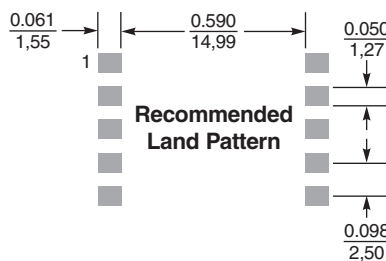
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

- Inductance is measured at 250 kHz, 0.5 Vrms, 0 Adc.
- DCR for the secondary is measured with the windings connected in parallel.
- Leakage inductance is for the primary and is measured with the secondary shorted.
- Turns ratio is with the secondary windings connected in parallel.
- Output is with the secondary windings connected in parallel. Auxiliary winding output is 10 V, 20 mA.
- Electrical specifications at 25°C.

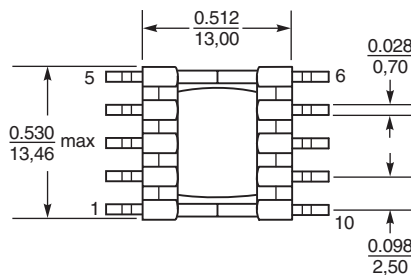
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Secondary windings to be connected in parallel on PC board.



Dimensions are in inches
mm



Coilcraft®

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

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