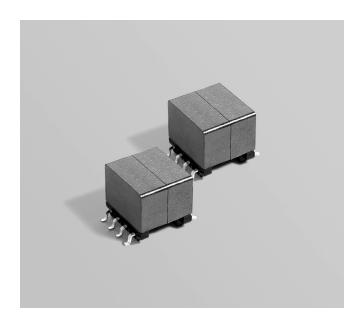


8 W Forward-Mode Transformers



- Designed for forward topology operating at 250 kHz
- Five outputs from 3.3 V to 15 V; 18 36 V input
- 1500 Vrms isolation from primary and aux to the secondary
- pecified by Texas Instruments for its LM5015 Two-Switch Forward Regulator

Core material Ferrite

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

Weight 4.0 - 4.3 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 $<30^{\circ}$ 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 200 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 11.2 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

Part	Inductance ²	DCR max (mOhms) ³			Leakage inductance4	Input voltage	Turns ratio ⁵		
number ¹	nom (μH)	pri	sec	aux	max (µH)	range (V)	pri : sec	pri : aux	Output ⁶
FCT1-33L2SL_	324	65	22.5	460	0.530	18-36	1:0.5	1:1.39	3.3 V, 2.4 A
FCT1-50L2SL_	324	65	31	490	0.585	18-36	1:0.72	1:1.39	5 V, 1.6 A
FCT1-90L2SL_	324	65	105	490	0.570	18-36	1:1.17	1:1.39	9 V, 0.89 A
FCT1-120L2SL_	324	65	150	535	0.525	18-36	1:1.56	1:1.39	12 V, 0.67 A
FCT1-150L2SL_	324	65	223	470	0.600	18-36	1:1.89	1:1.39	15 V, 0.53 A

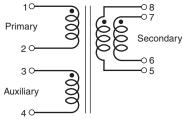
1. When ordering, please specify a packaging code:

FCT1-50L2SLD

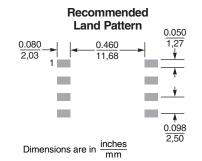
Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (200 parts per full reel).

- 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 is measured at 250 kHz, 0.3 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. Auxiliary winding output is 10 V, 20 mA.
- 7. Electrical specifications at 25°C.

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

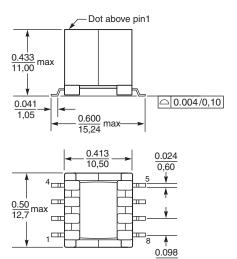


Secondary windings to be connected in parallel on PC board.





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