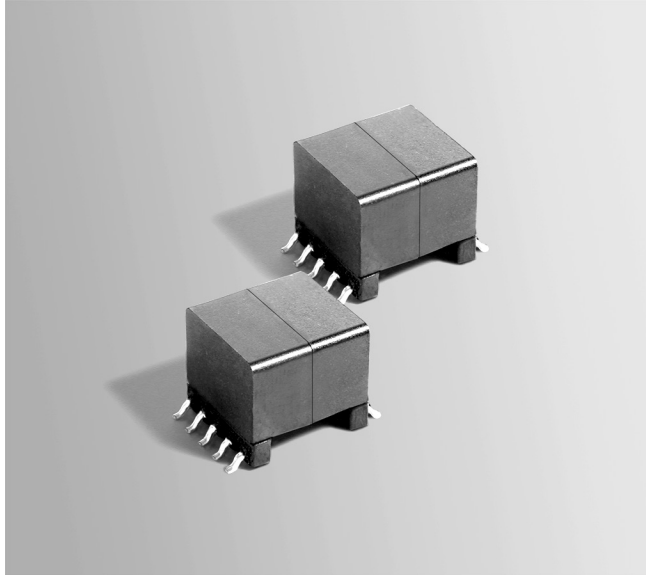


25 W Forward Mode Transformers



- 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
- 1500Vrms, 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)

Mean Time Between Failures (MTBF) / Failures in Time (FIT)

Calculated per Telcordia SR-322 26,315,789 hours / 38 per billion hours

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

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	bias			pri : sec	pri : bias	
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:

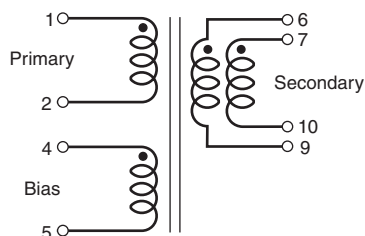
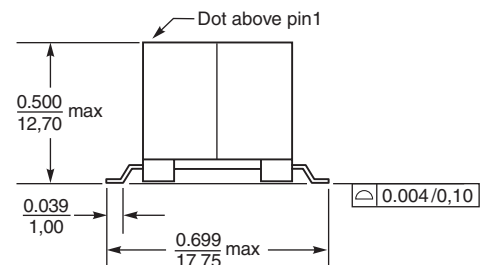
FCT1-50M22SLD

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

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, 0.1 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. Bias winding output is 12 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.

