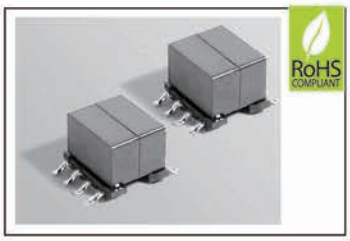


4 W Forward Mode Transformers

- Designed for forward topology operating at 250 kHz
- Five outputs from 3.3 V to 15 V; 9 – 18 V input
- 1500 Vrms isolation from primary and aux to the secondary
- Specified by **National Semiconductor** 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 2.0 – 2.1g

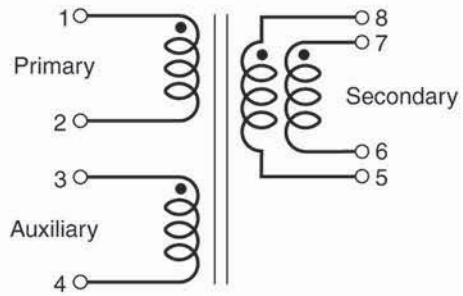
Ambient temperature –40°C to +85°C

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)

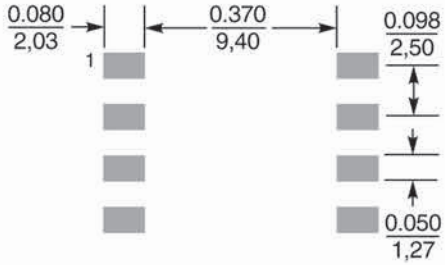
Part number[1]	Inductance[2] nom (µH)	DCR max (mOhms)[3] pri	sec	aux	Leakage inductance[4] max (µH)	Input voltage range (V)	Turns ratio[5] pri : sec	pri : aux	Output[6]
YCEP7–2-33K2SL_	120	48	53	720	0.195	9 – 18	1 : 1.0	1 : 2.8	3.3 V, 1.2 A
YCEP7–2-50K2SL_	120	48	88	735	0.205	9 – 18	1 : 1.4	1 : 2.8	5 V, 0.8 A
YCEP7–2-90K2SL_	120	48	218	745	0.165	9 – 18	1 : 2.3	1 : 2.8	9 V, 0.44 A
YCEP7–2-120K2SL_	120	48	420	705	0.170	9 – 18	1 : 3.0	1 : 2.8	12 V, 0.33 A
YCEP7–2-150K2SL_	120	48	532	732	0.215	9 – 18	1 : 3.7	1 : 2.8	15 V, 0.27 A



Secondary winding 7 – 6 not used on FCT1-120K2SL and FCT1-150K2SL. For other parts, secondary windings to be connected in parallel on PC board.

1. Inductance is measured at 250 kHz, 0.2 Vrms, 0 Adc.
2. DCR for the secondary is measured with the windings connected in parallel.
3. Leakage inductance is for the primary and is measured with the secondary shorted.
4. Turns ratio is with the secondary windings connected in parallel.
5. Output is with the secondary windings connected in parallel. Auxiliary winding output is 10 V, 20 mA.
6. Electrical specifications at 25°C.
7. Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Recommended Land Pattern



Dimensions are in inches / mm