

FCD For LED Only (Rev. 4.0)



Features

- * RoHS compliant
- * High saturation open type wire wound power inductor
- * Suitable for large currents
- * Ideal for DC – DC converter applications

Product Identification

FCD **54** - **102** **K**
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 1000uH
4. Tolerance: K=±10%

Applications

- * Power supply for VTRs
- * LCD televisions
- * Portable communication devices
- * DC / DC converters, etc
- * OA equipment
- * Notebook PCs

Operating & Storage Condition :

- * Operating Temp. : -40 to +85 °C
- * Storage Temp. : -25 to +35 °C
- * Storage Life Time : 12 Months @25 °C , RH 70%

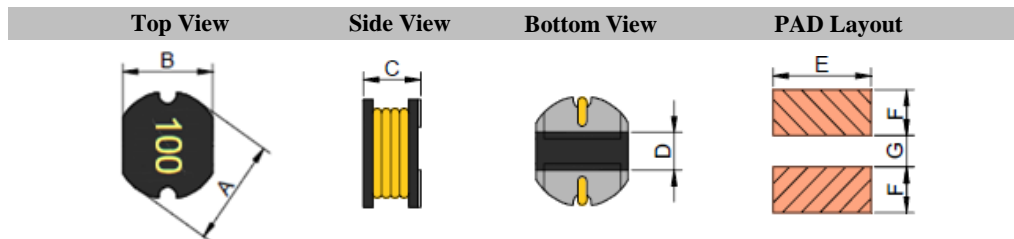
Test Equipment :

- * Wayne kerr 3260B/G LCR Meter
- * Wayne kerr 3265B Bias Current Source

Standard Atmospheric Conditions :

- Ambient Temp : 20+/-15 °C
- Relative Humidity : 65+/-20%

Dimension & Recommended PAD Layout: [mm]



Size Code	A(±0.3)	B(±0.3)	C(±0.3)	D(ref.)	E(ref.)	F(ref.)	G(ref.)
54	5.8	5.2	4.5	1.3	5.6	2.6	1.1
75	7.8	7.0	5.0	2.1	7.4	3.3	1.7
77	7.8	7.0	7.0	2.1	7.4	3.3	1.7

Electrical Characteristics

P/N	L (uH)	Tolerance (± %)	DCR (Ω) max.	Isat. (A) max.	Wire (mm)	Turns (ref.)
FCD54-102K	1000	10	6.8	0.22	0.10	208
FCD54-122K	1200	10	7.6	0.20	0.09	225
FCD54-152K	1500	10	11.3	0.18	0.08	235
FCD75-102K	1000	10	5.0	0.50	0.12	170
FCD75-122K	1200	10	6.2	0.45	0.12	185
FCD75-152K	1500	10	7.7	0.43	0.12	200
FCD77-102K	1000	10	4.2	0.52	0.16	185
FCD77-122K	1200	10	4.5	0.48	0.16	198
FCD77-152K	1500	10	5.6	0.45	0.14	220

* Test Condition @100KHz / 1.0Vrms, 25 °C Ambient

* Isat DC current (A) that will cause L to drop approximately 10%