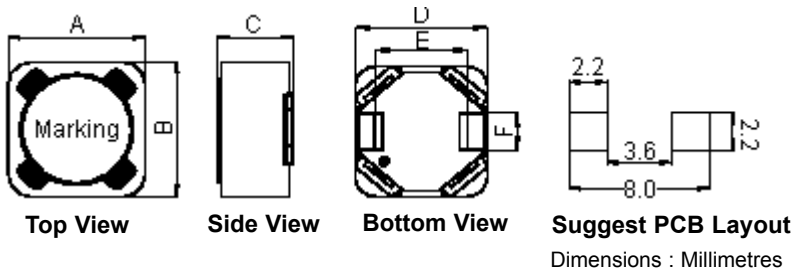


## Features:



- Ferrite based SMD inductor with lower core loss.
- Inductance range: 1  $\mu\text{H}$  to 1,000  $\mu\text{H}$ . Custom values are welcome.
- High current output chokes, up to 8 amperes with about 30% roll off.
- Low profile 3.55 mm maximum height.
- Foot print 7.6  $\times$  7.6 mm maximum.
- Ideal for LCD driver, DSC/DVC, Notebook PC or High density board design.
- Operating temperature range -55°C to + 130°C.
- T and R Quantity: 1,350 pieces, 13 inches reel.

## Mechanical Dimensions



Typ.	MCSRH73B	
A	7.3 $\pm$ 0.3 mm	-
B	7.3 $\pm$ 0.3 mm	-
C	3.55 mm	(Max.)
D	7 $\pm$ 0.3 mm	-
E	3.9 mm	(Ref.)
F	2 mm	

## Electrical Characteristics of MCSRH73B Series

OCL ( $\mu\text{H}$ ) $\pm 20\%$	DCR ( $\Omega$ ) (Typ.)	DCR ( $\Omega$ ) (Max.)	$I_{\text{sat}}$ (A) at 25°C	L at $I_{\text{sat}}$ ( $\mu\text{H}$ ) (Typ.)	$I_{\text{rms}}$ (A) at 25°C	L at $I_{\text{rms}}$ ( $\mu\text{H}$ ) (Typ.)
1	0.0091	0.0109	8	0.785	6.5	0.89
1.5	0.0125	0.015	6.52	1.186	5.54	1.325
2.2	0.018	0.0216	5.52	1.7	4.6	1.95
3.3	0.023	0.0276	4.4	2.69	4.08	2.84
4.7	0.0297	0.0356	3.78	3.63	3.65	3.8
6.8	0.0415	0.0498	3.12	5.53	3.04	5.66
8.2	0.0525	0.063	2.8	6.5	2.7	6.7
10	0.0656	0.0787	2.5	8.16	2.35	8.48
15	0.08	0.096	2.05	10.3	2.12	9.65
22	0.108	0.13	1.67	15.25	1.83	13.9
33	0.166	0.199	1.35	24.75	1.48	19.75
47	0.231	0.277	1.14	33.2	1.25	27.9
68	0.331	0.397	0.96	48	1.04	41.33
82	0.41	0.492	0.89	55.05	0.94	49.3
100	0.491	0.589	0.79	71	0.86	60.33
150	0.751	0.901	0.65	100.8	0.69	88.9
220	1.05	1.26	0.53	156.3	0.59	126

## Electrical Characteristics of MCSDRH73B Series

OCL ( $\mu\text{H}$ ) $\pm 20\%$	DCR ( $\Omega$ ) (Typ.)	DCR ( $\Omega$ ) (Max.)	$I_{\text{sat}}$ (A) at 25°C	L at $I_{\text{sat}}$ ( $\mu\text{H}$ ) (Typ.)	$I_{\text{rms}}$ (A) at 25°C	L at $I_{\text{rms}}$ ( $\mu\text{H}$ ) (Typ.)
330	1.59	1.908	0.44	252.7	0.48	219.9
470	2.17	2.604	0.37	320.2	0.41	263.7
680	3.12	3.744	0.31	542.1	0.34	467.3
820	4.01	4.812	0.28	591.3	0.3	515.5
1,000	5.06	6.072	0.25	679.9	0.27	578.4

**Note :**

1. OCL (Open Circuit Inductance) and L at  $I_{\text{rms}}$  and L at  $I_{\text{sat}}$  and DCR are measured at: 100 KHz, 0.25 V at 25°C.
2.  $I_{\text{sat}}$  : DC current that causes inductance to drop by approximately 30% from OCL ; ( $T_a = 25^\circ\text{C}$ ).
3.  $I_{\text{rms}}$  : DC current that causes an approximate temperature rise ( $\Delta T$ ) of 40°C ; ( $T_a = 25^\circ\text{C}$ ).

**Inductance vs. Current**

