

SMD HIGH CURRENT INDUCTORS



MODEL NO. : SSC-06803DD HF SERIES

FEATURES:

- * LOW PROFILE, HIGH POWER, LOW LOSS, LOW DCR WITH LARGE CURRENT DESIGN.
- * CLOSED MAGNETIC CIRCUIT CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- * COMPACT SIZE WITH HIGH PERFORMANCE DUST CORE AND RIBBON WIRE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * NOTEBOOK COMPUTERS. * VGA CARD. * INDUCTOR FOR GENERAL PURPOSE AVAILABLE.
- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (μ H) TYP @0ADC	INDUCTANCE (μ H) \pm 20%	TEMPERATURE RISE CURRENT (ADC)	INDUCTANCE (μ H)Typ	SATURATION CURRENT (ADC) (NOTE 3)	DCR \pm 10% (m Ω)
SSC-06803DD-R12 HF	0.13	0.12	22.0	0.11	32	0.91
SSC-06803DD-R22 HF	0.24	0.22	20.0	0.19	30	1.6
SSC-06803DD-R25 HF	0.30	0.25	19.0	0.22	25	1.6
SSC-06803DD-R44 HF	0.48	0.44	14.0	0.41	18	3.7
SSC-06803DD-R75 HF	0.95	0.75	9.5	0.70	13	6.2
SSC-06803DD-1R0 HF	1.15	1.0	8.5	0.9	11	8.0
SSC-06803DD-1R5 HF	1.65	1.5	5.5	1.2	9.0	13.5
SSC-06803DD-1R6 HF	2.0	1.6	5.5	1.4	9.0	13.5
SSC-06803DD-1R8 HF	2.2	1.8	5.5	1.6	9.0	17.2

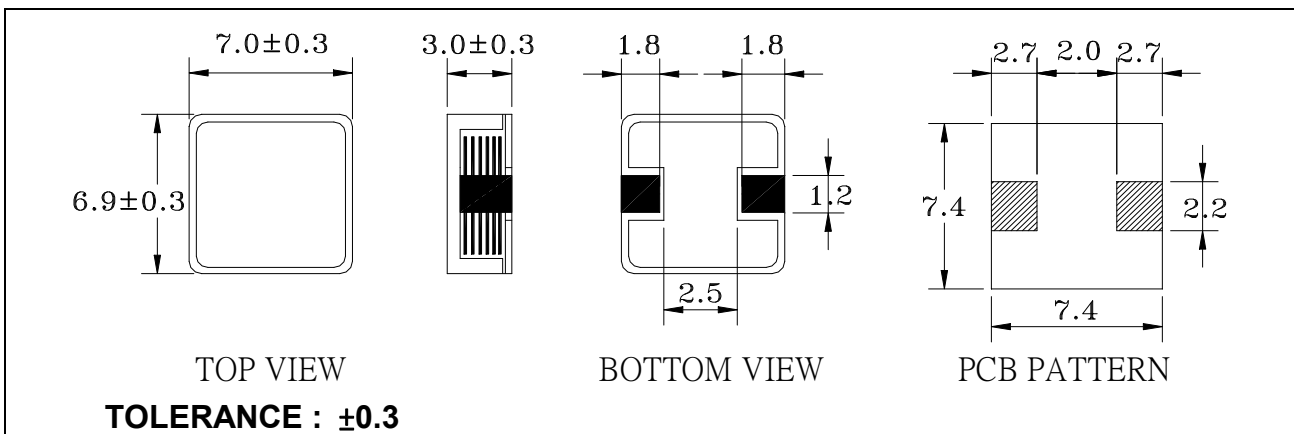
NOTE(1): Test frequency: 100 KHZ, 1Vrms.

NOTE(2): $\Delta T=45^{\circ}\text{C}$ approximately under the temperature rise current

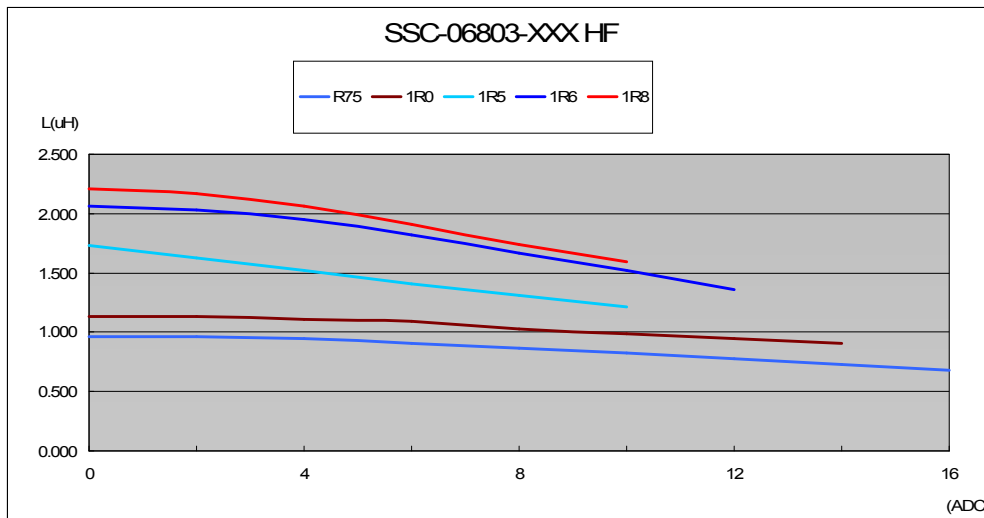
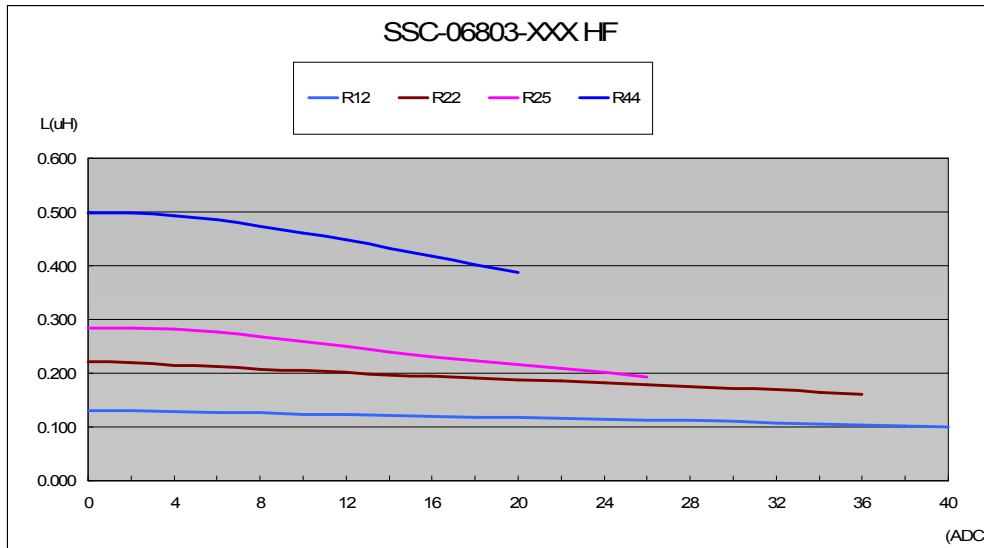
NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$.

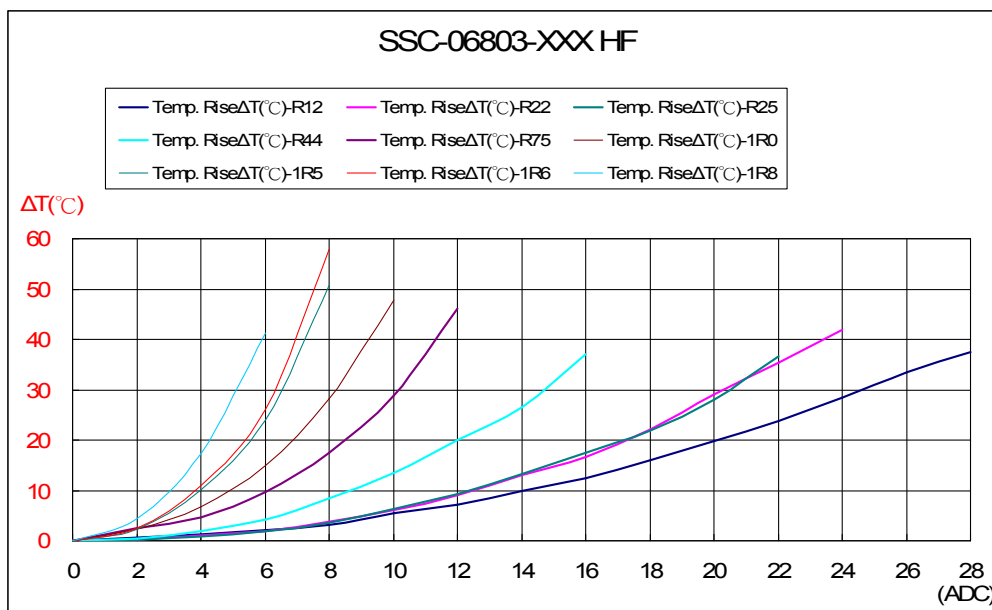
PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE VS DC BIAS:



TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1500PCS.
2. TAPE WIDTH:16mm.
3. REEL WIDTH:22.4mm.
4. COMPONENT PITCH:12mm