

SMD HIGH CURRENT INDUCTORS



MODEL NO. : SSC-115060DD HF SERIES

FEATURES:

- * LOW CORE LOSS AND HIGH EFFICIENCY PERFORMANCE.
- * HIGHSATURATION CURRENT UPTO 120AMP.
- * CLOSE MAGNETIC PATH FOR LOW LEAKAGE FLUX.
- * LOW DCR WITH FLAT WIRE DESIGN.
- * COMPLIANT WITH ROHS AND HALOGEN FREE.
- * AEC-Q200 COMPLIANCE.



APPLICATION :

- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- * ROUTERS. * SOLAR ENERGY. * AUTOMOBILE.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) $\pm 20\%$ @0 ADC	DCR $\pm 10\%$ (m Ω)	TEMPERATURE RISE CURRENT (ADC)		SATURATION CURRENT (ADC) (NOTE 2)	SRF (MHZ) Typ
			$\Delta T: 20^\circ\text{C}$	$\Delta T: 40^\circ\text{C}$		
SSC-115060DD-R18 HF	0.18	0.50	28.8	46.0	120	68
SSC-115060DD-R40 HF	0.40	0.73	25.9	36.8	82	60
SSC-115060DD-R68 HF	0.68	1.31	22.4	33.9	52	51
SSC-115060DD-1R2 HF	1.2	2.25	17.9	26.3	43	44
SSC-115060DD-1R5 HF	1.5	2.75	16.0	24.4	36	36
SSC-115060DD-2R2 HF	2.2	4.20	13.9	20.0	32	25
SSC-115060DD-3R3 HF	3.3	6.70	11.2	16.8	26	19
SSC-115060DD-4R7 HF	4.7	9.70	8.5	14.0	25	16

Temperature Rise Current Testing :

The testing was performed on 0.75 inch wide x 0.25 inch thick Copper traces in still air.

Temperature rise is highly dependent on many factors including pcb pattern, trace size and proximity to other components. Therefore temperature rise should be verified in application conditions.

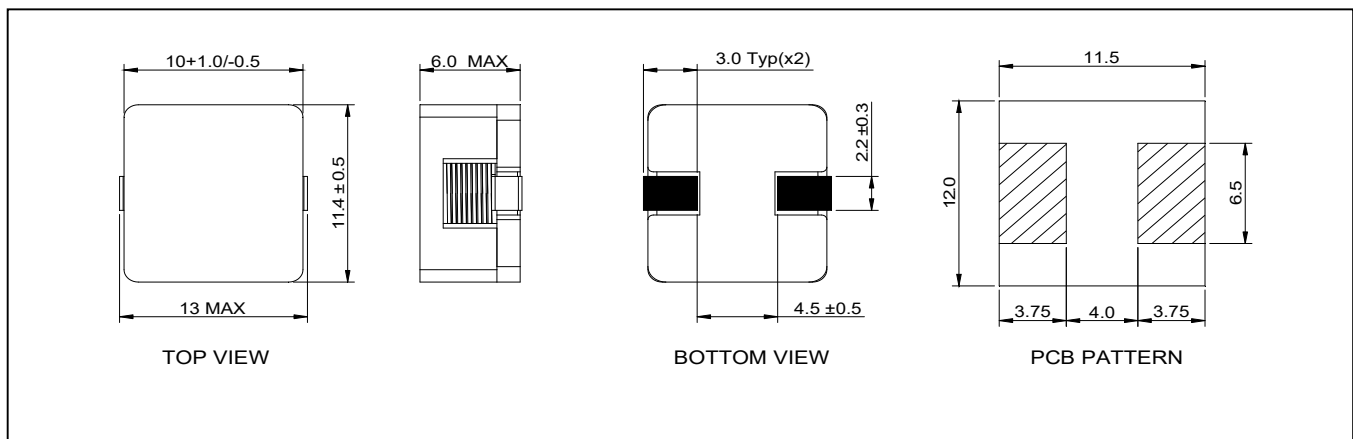
NOTE(1): Measuring condition : 1.0 MHZ, 0.1Vrms.

NOTE(2): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

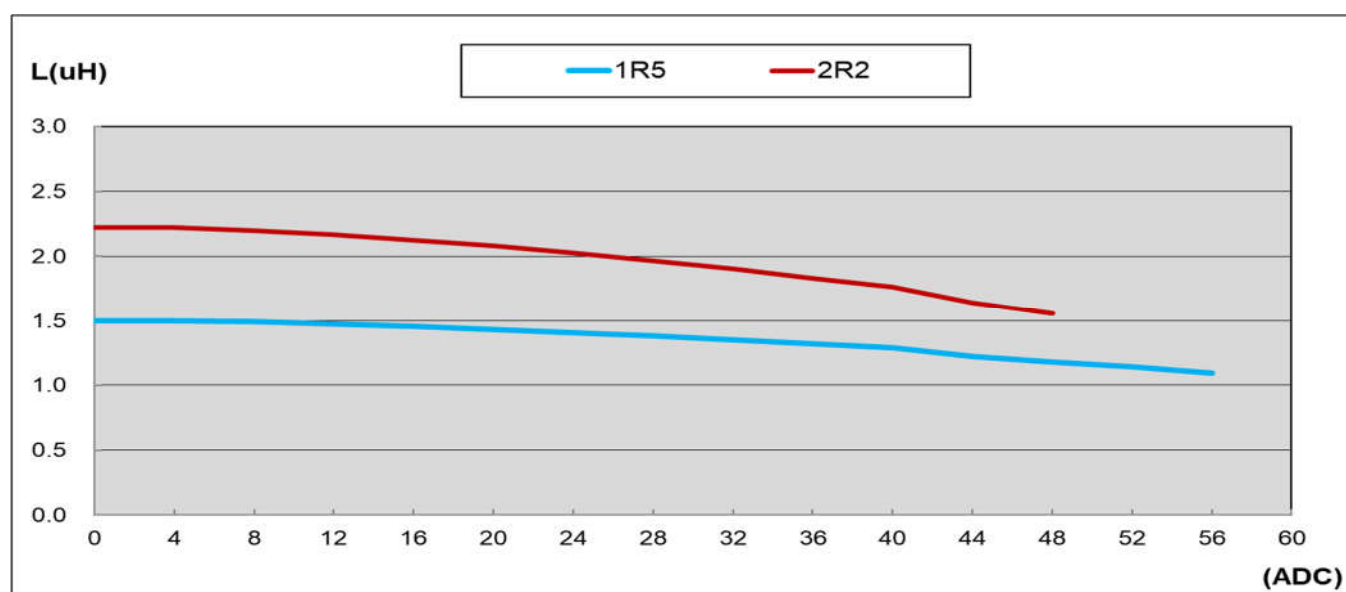
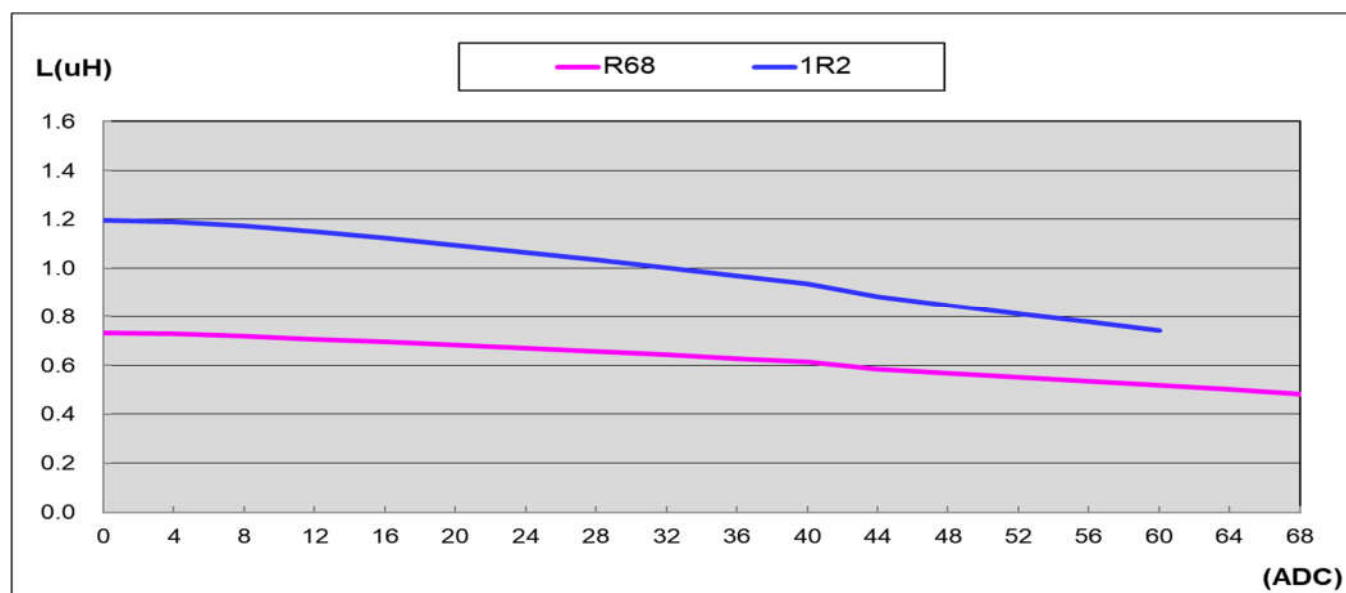
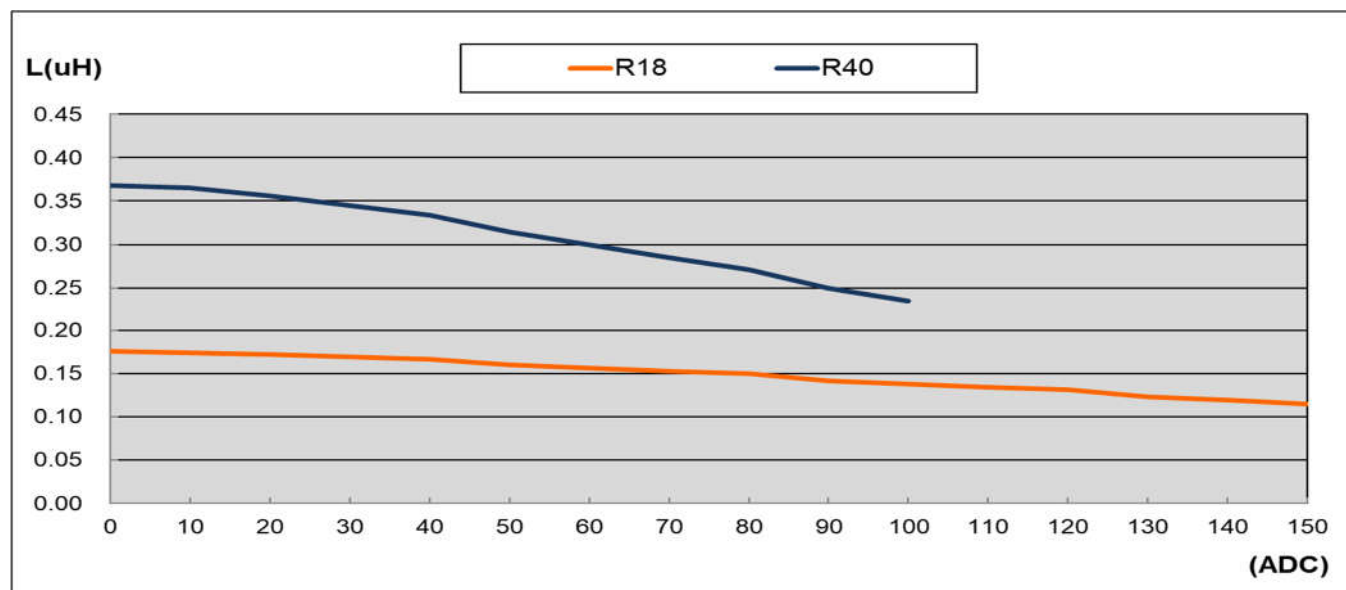
NOTE(3): Operating temperature range: $-40^\circ\text{C} \sim +125^\circ\text{C}$.

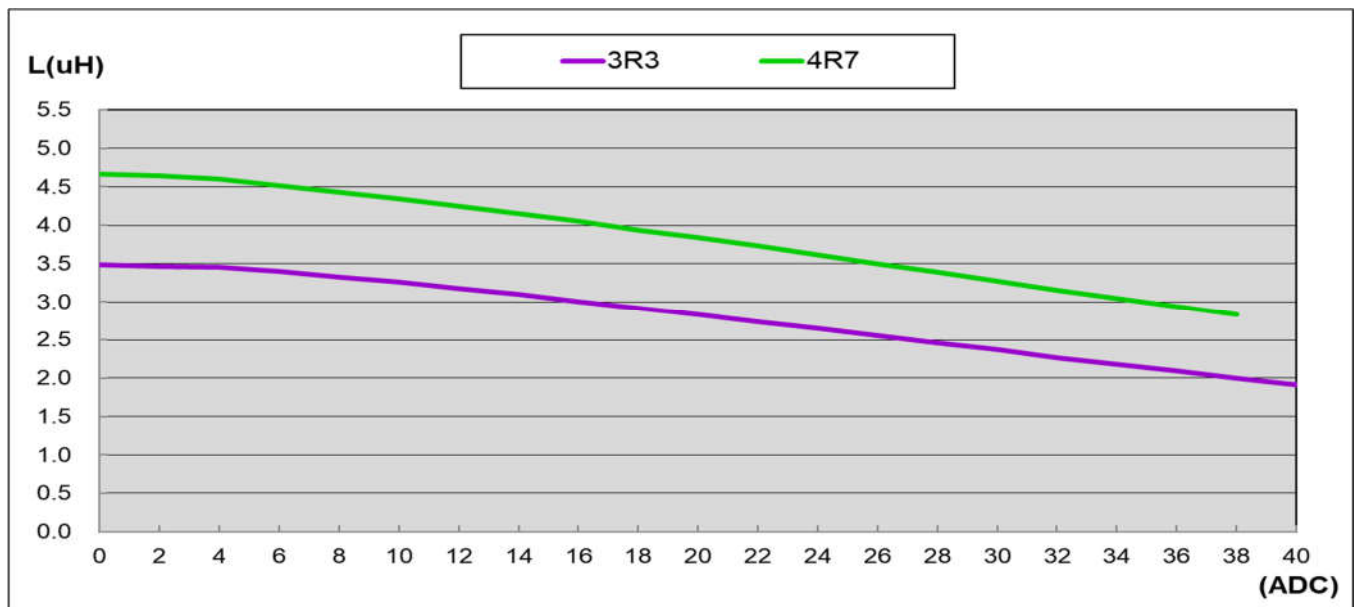
NOTE(4): Storage time : The recommended storage time of Inductor is maximum 12 months, and don't suggest to use the parts over 12 months.

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE vs DC BIAS :





PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",600PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm.
5. Weight : 4.0 g / pcs typ.