

SMD HIGH CURRENT INDUCTORS

MODEL NO. : SSC-115100DD HF & SSC-115115DD HF SERIES

FEATURES:

- * LOW CORE LOSS AND HIGH EFFICIENCY PERFORMANCE.
- * CLOSE MAGNETIC PATH FOR LOW LEAKAGE FLUX.
- * LOW DCR WITH FLAT WIRE DESIGN.
- * COMPLIANT WITH ROHS AND HALOGEN FREE.
- * AEC-Q200 QUALIFIED



APPLICATION :

- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- * AUTOMOBILE.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) ±20% @0 ADC	DCR ±10% (mΩ)	TEMPERATURE RISE CURRENT (ADC)		SATURATION CURRENT (ADC) (NOTE 2)	TOTAL HEIGHT MAX (mm)
			ΔT:20°C	ΔT:40°C		
SSC-115100DD-R22 HF	0.22	0.45	41.0	55.5	98.8	10.0
SSC-115100DD-R45 HF	0.45	0.65	40.0	53.0	70.5	
SSC-115100DD-R68 HF	0.68	0.87	36.0	48.0	62.0	
SSC-115100DD-1R0 HF	1.0	1.00	32.0	43.5	55.0	
SSC-115100DD-1R5 HF	1.5	1.60	31.0	40.5	36.6	
SSC-115100DD-2R2 HF	2.2	2.55	24.5	32.0	34.0	
SSC-115100DD-3R3 HF	3.3	3.70	18.2	25.0	27.4	
SSC-115100DD-4R7 HF	4.7	5.20	17.5	24.0	25.4	
SSC-115100DD-5R6 HF	5.6	6.30	15.7	21.2	23.6	
SSC-115100DD-6R8 HF	6.8	8.10	14.0	18.5	21.8	
SSC-115100DD-8R2 HF	8.2	11.7	12.9	17.1	18.3	
SSC-115100DD-100 HF	10	13.4	11.5	15.5	17.5	
SSC-115100DD-150 HF	15	16.9	9.9	13.8	15.5	
SSC-115115DD-330 HF	33	26.0	4.2	5.7	8.0	11.5

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.

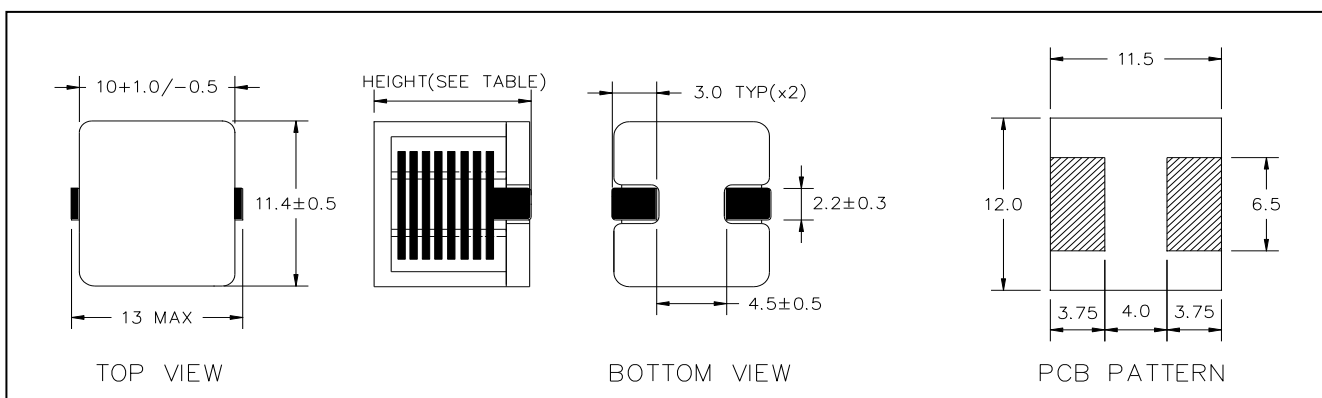
NOTE(1): Test frequency: 100 KHZ,0.1Vrms.

NOTE(2): ΔT=40°C approximately under the temperature rise current

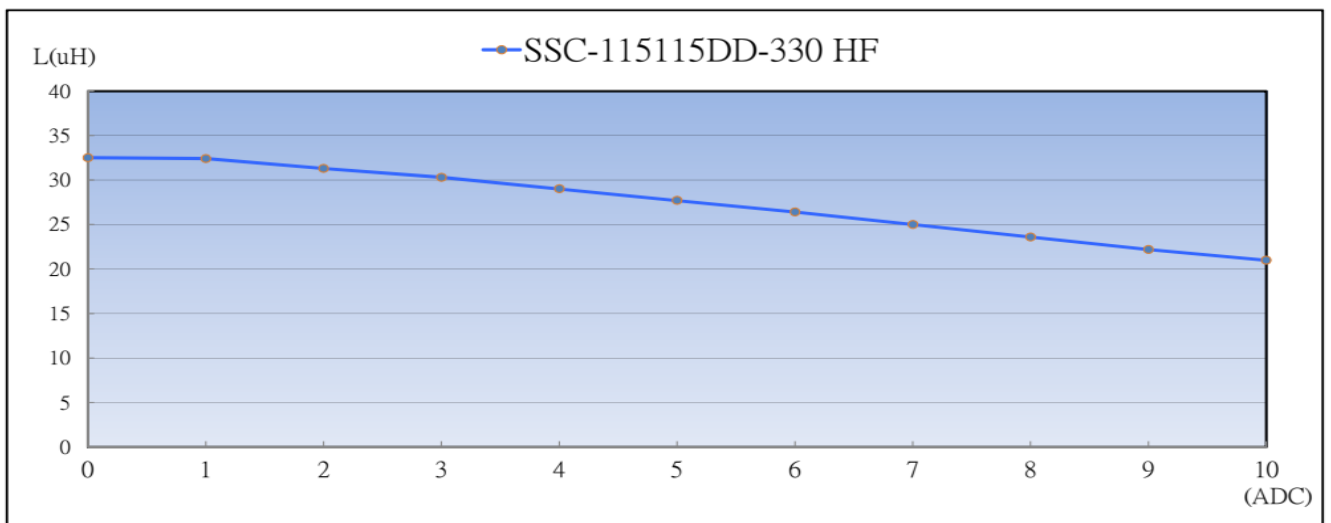
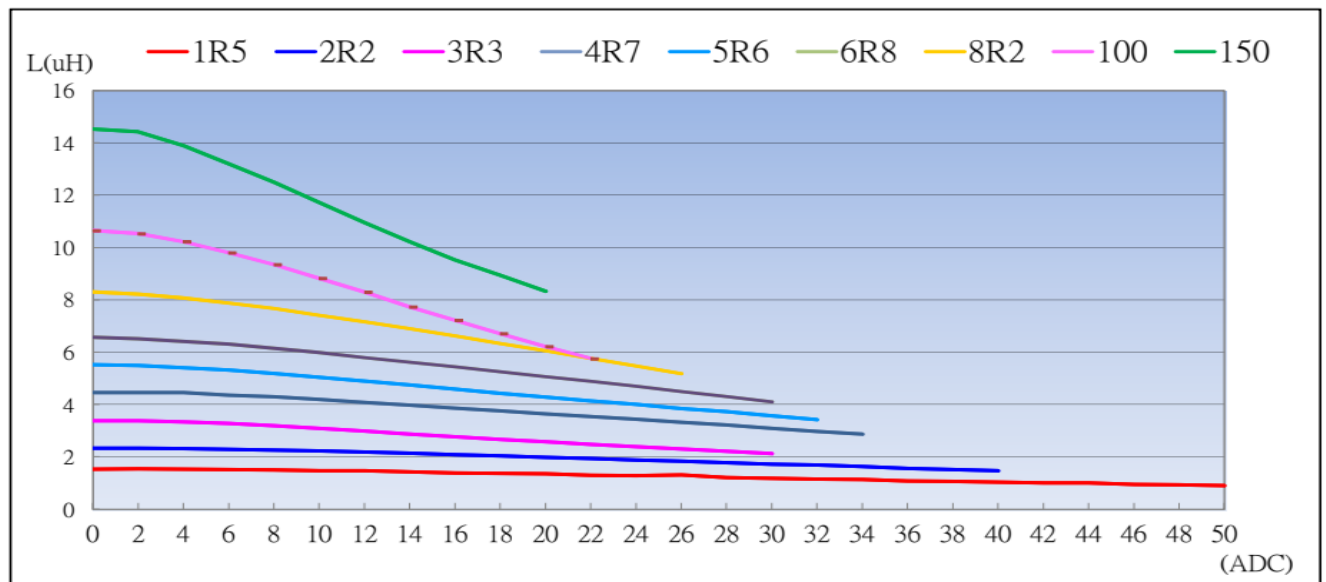
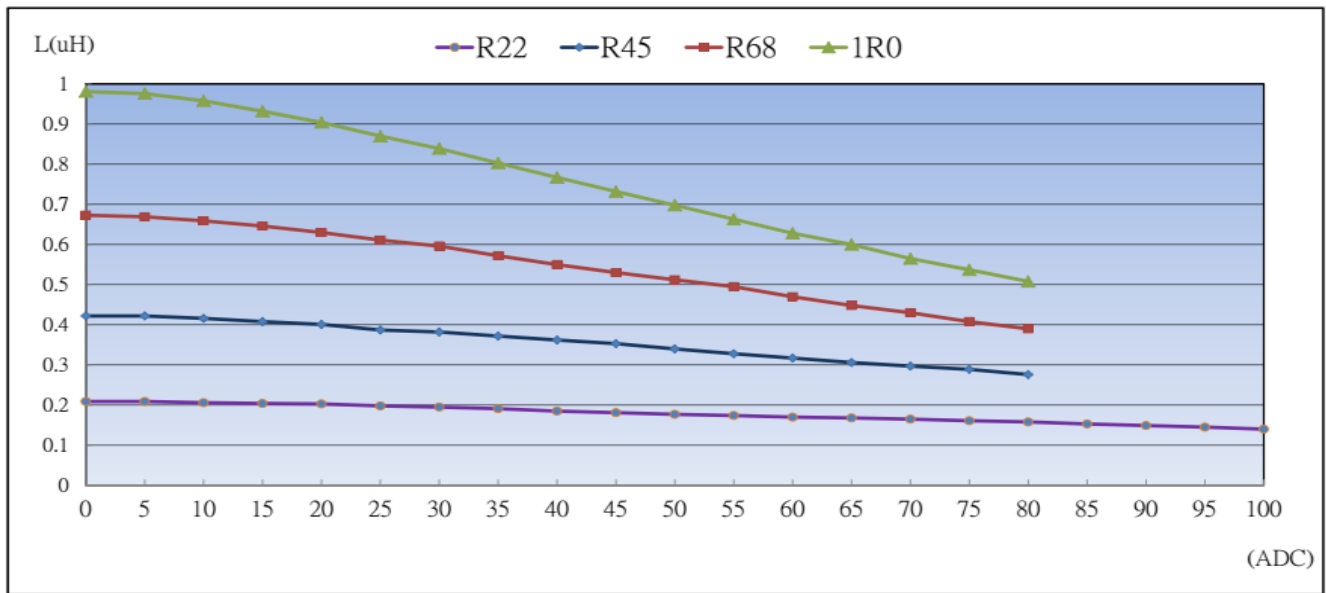
NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: -40°C ~ +150°C

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE vs DC BIAS :



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",300PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm
4. COMPONENT PITCH:16mm
5. Weight : 6.20 g / pcs typ.