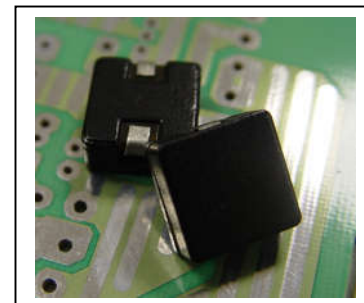


# SMD HIGH CURRENT INDUCTORS

**MODEL NO. : SSC-12565SD HF**

**FEATURES:**

- \* LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- \* CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- \* RIBBON WIRE ENSURE THE MINIATURIZATION & HI-EFFICIENCY.
- \* COMPLIANT WITH RoHS AND HALOGEN FREE.



**APPLICATION :**

- \* DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- NOTEBOOK COMPUTERS. ● DESKTOP PC. ● SERVERS. ● ROUTERS.

**ELECTRICAL SPECIFICATION:**

PART NO	INDUCTANCE (μH) ±20% @0ADC	INDUCTANCE (μH)TYP @TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC)	INDUCTANCE (μH) TYP. @ SATURATION CURRENT	SATURATION CURRENT (ADC) (NOTE 3)	DCR ±10% (mΩ)
SSC-12565SD-R20 HF	0.20±30%	0.17	36	0.16	55	0.37
SSC-12565SD-R47 HF	0.47	0.36	30	0.32	43	0.64
SSC-12565SD-R82 HF	0.82	0.65	26	0.58	35	1.04
SSC-12565SD-1R3 HF	1.30	0.95	23	0.90	22	1.7
SSC-12565SD-2R0 HF	2.00	1.45	20	1.40	21	2.5
SSC-12565SD-2R8 HF	2.80	2.00	16.5	2.00	16.5	3.4
SSC-12565SD-3R7 HF	3.70	2.85	13.5	2.70	15.5	4.9
SSC-12565SD-4R7 HF	4.70	3.50	12.5	3.40	14	6.9
SSC-12565SD-6R0 HF	6.00	4.70	10.5	4.40	12	8.3
SSC-12565SD-7R6 HF	7.60	5.30	9.5	5.60	8.5	10.4
SSC-12565SD-100 HF	10.0	7.90	8.0	7.70	8.5	15.9
SSC-12565SD-140 HF	14.0	11.0	6.5	9.90	8.5	24.7
SSC-12565SD-180 HF	18.0	14.0	5.5	13.2	6.5	29.0

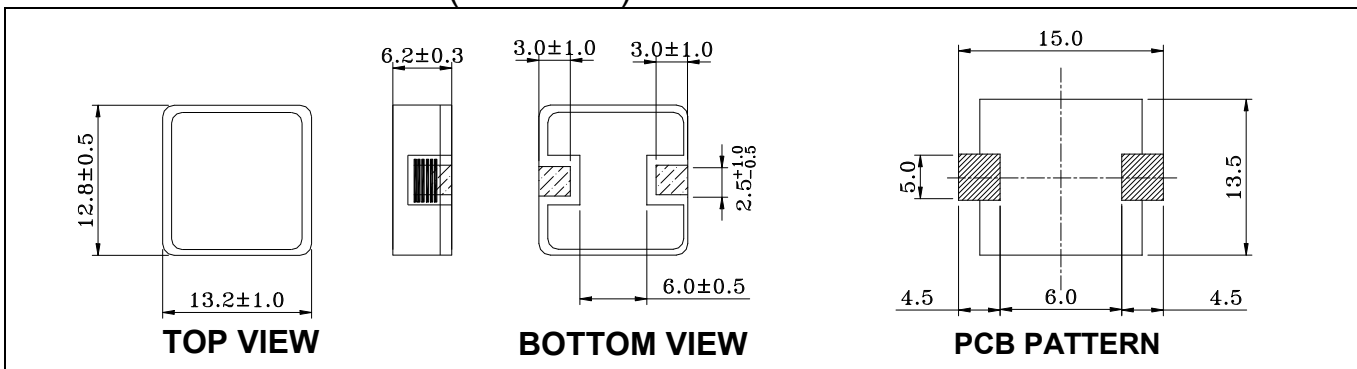
NOTE(1): Measuring condition: 100 KHZ, 0.1Vrms

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

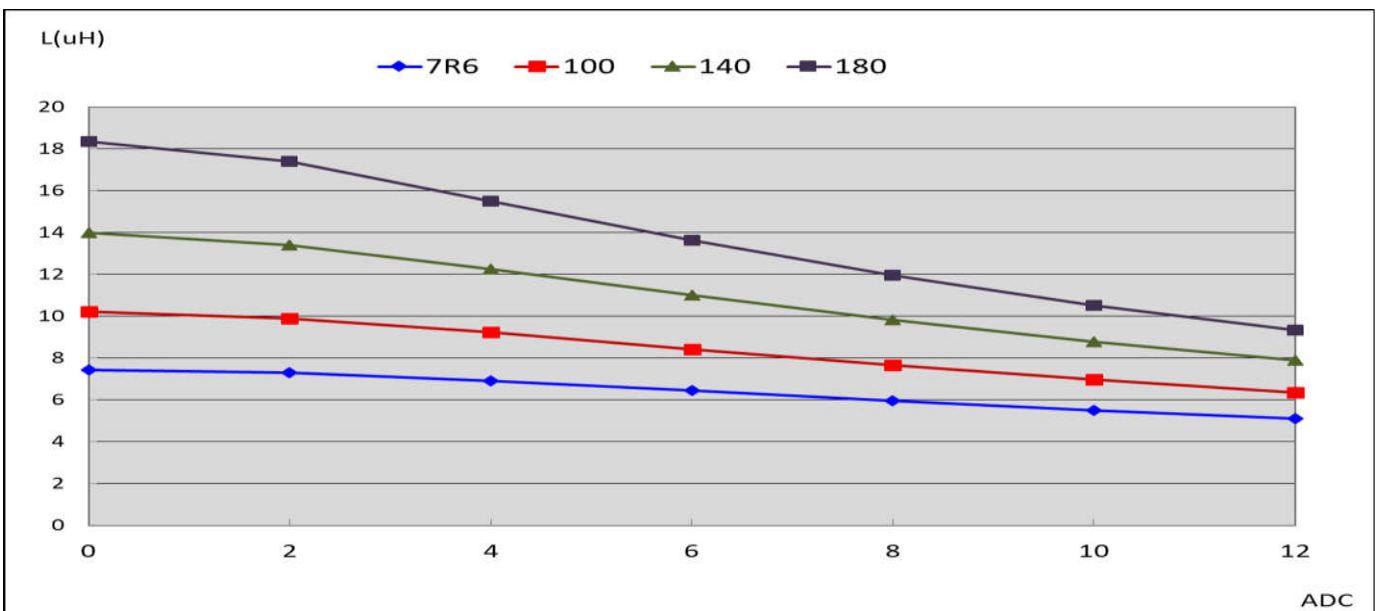
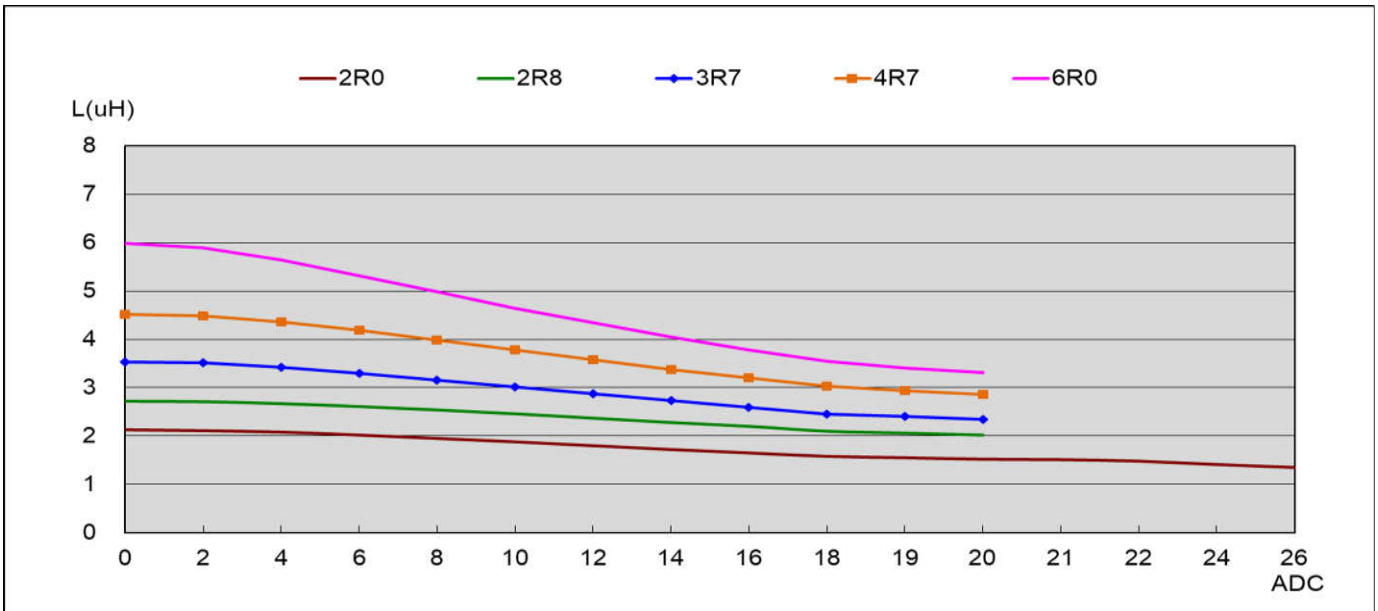
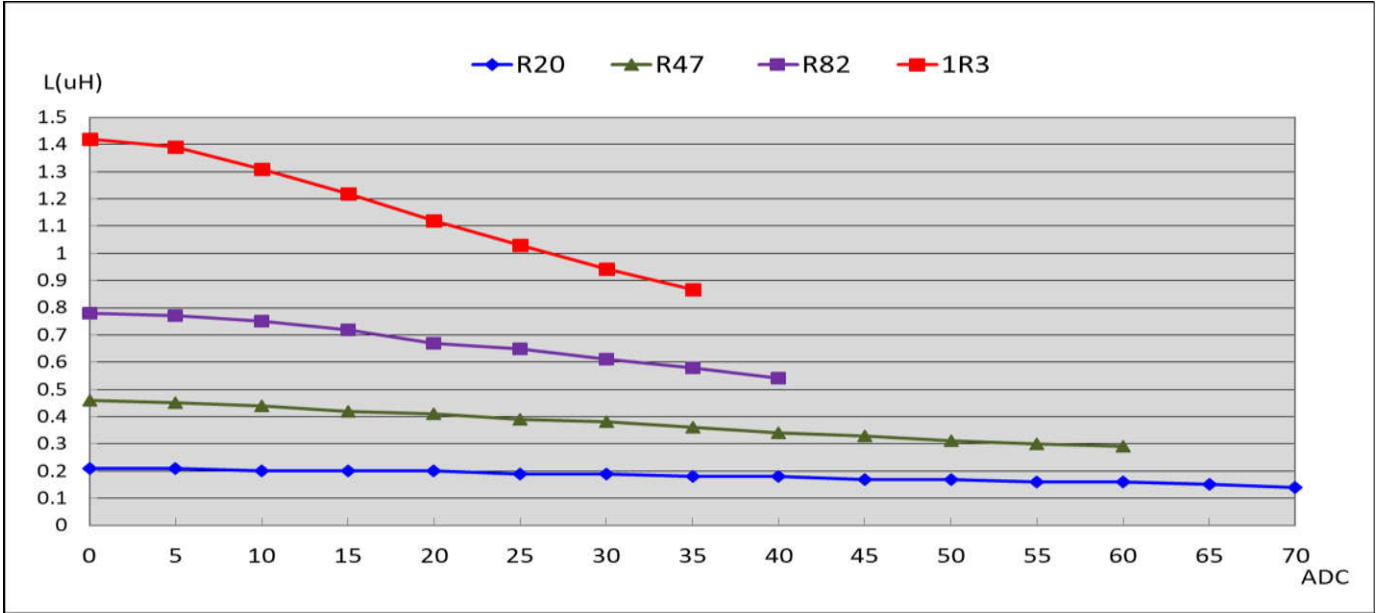
**PHYSICAL DIMENSION : (UNIT:mm)**



**PACKAGING SPEC:**

1. REEL SIZE & UNITS PER REEL :13",400PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm

### INDUCTANCE vs DC BIAS:



# TEMPERATURE vs DC BIAS:

