

## HIGH CURRENT INDUCTORS

MODEL NO : SSC-27015 HF & SSC-27018 HF & SSC-27020 HF SERIES

### FEATURES:

- \* LOW CORE LOSS AND HIGH EFFICIENCY PERFORMANCE.
- \* CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY.
- \* THIRD MOUNTING PAD FOR GREATER STABILITY AND BOARD ADHESION.
- \* COMPLIANT WITH RoHS AND HALOGEN FREE.



### APPLICATION:

- DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- PV INVERTERS.

### ELECTRICAL SPECIFICATION:

MODEL NO	INDUCTANCE ±10% (uH)	DCR ±10% (mΩ)	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	TOTAL HEIGHT MAX (mm)
SSC-27015-1R0L HF	1.0	0.95	30	> 100	15.36
SSC-27015-1R5H HF	1.5	1.29	30	> 100	15.36
SSC-27015-2R2H HF	2.2	1.85	30	> 100	15.36
SSC-27015-2R2L HF	2.2	1.60	30	84.8	15.36
SSC-27015-3R3H HF	3.3	1.85	30	68.4	15.36
SSC-27015-3R3L HF	3.3	1.60	30	57.0	15.36
SSC-27015-4R7H HF	4.7	1.85	30	50.1	15.36
SSC-27015-4R7L HF	4.7	1.60	30	39.0	15.36
SSC-27015-6R8H HF	6.8	1.85	30	36.2	15.36
SSC-27015-6R8L HF	6.8	1.60	30	27.8	15.36
SSC-27015-100H HF	10	1.85	30	23.4	15.36
SSC-27015-100L HF	10	1.60	30	17.6	15.36
SSC-27015-150H HF	15	1.85	30	15.2	15.36
SSC-27015-150L HF	15	1.60	30	11.0	15.36
SSC-27015-220H HF	22	1.85	30	9.6	15.36
SSC-27015-220L HF	22	1.60	30	6.8	15.36
SSC-27015-330H HF	33	1.85	30	5.9	15.36
SSC-27015-330L HF	33	1.60	30	3.3	15.36
SSC-27018-3R3H HF	3.3	2.45	28	93.6	17.78
SSC-27018-4R7H HF	4.7	2.45	28	62.4	17.78
SSC-27018-6R8H HF	6.8	2.45	28	45.9	17.78
SSC-27018-100H HF	10	2.45	28	32.1	17.78
SSC-27018-150H HF	15	2.45	28	21.5	17.78
SSC-27018-220H HF	22	2.45	28	14.5	17.78
SSC-27018-330H HF	33	2.45	28	9.3	17.78
SSC-27018-500H HF	50	10.5	15.0	15.0	19.0
SSC-27020-100H HF	10	3.45	28	41.0	19.8

NOTE (1): Test frequency: 500 KHZ ,0.1Vrms.

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

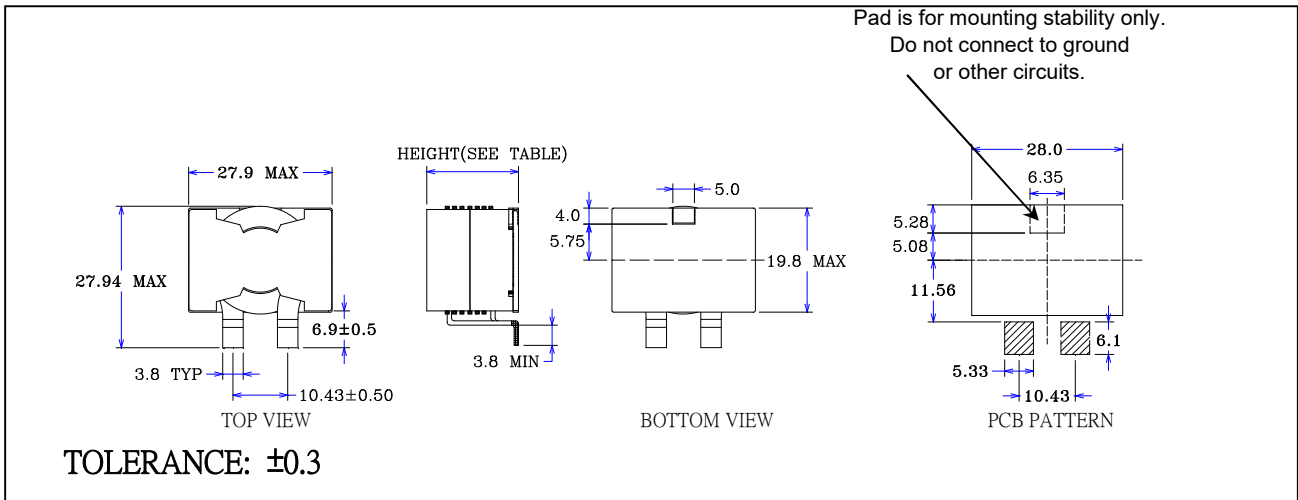
NOTE (3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE (4): Operating temperature range: -40°C~ +125°C

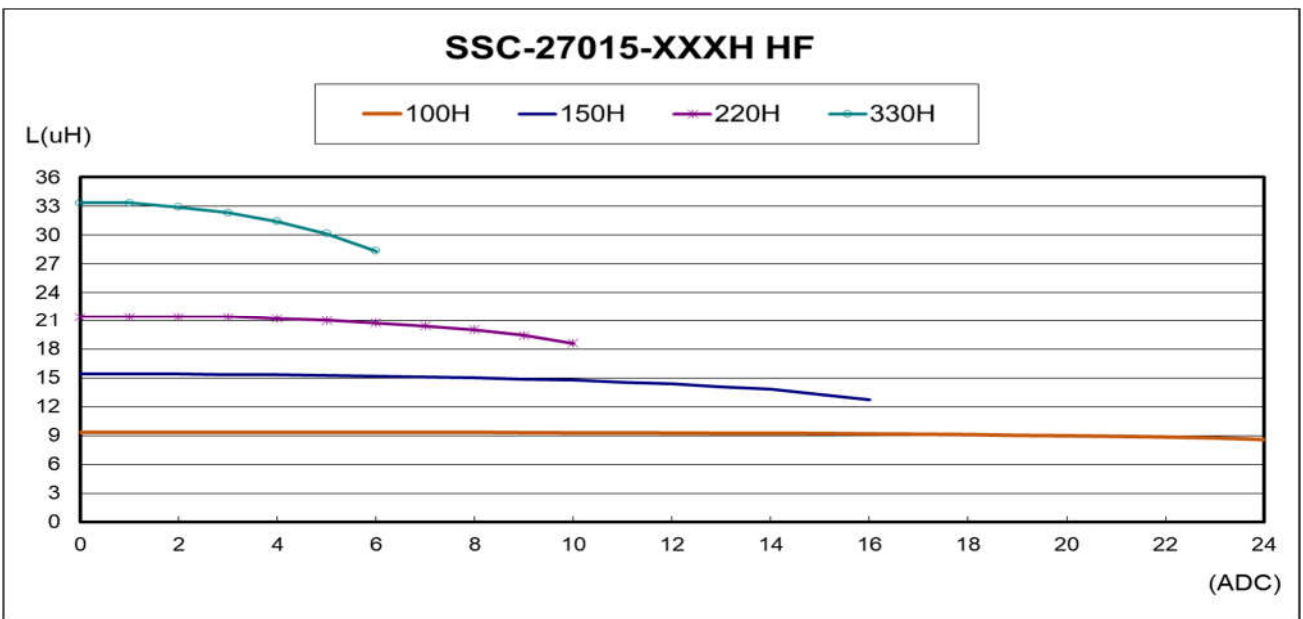
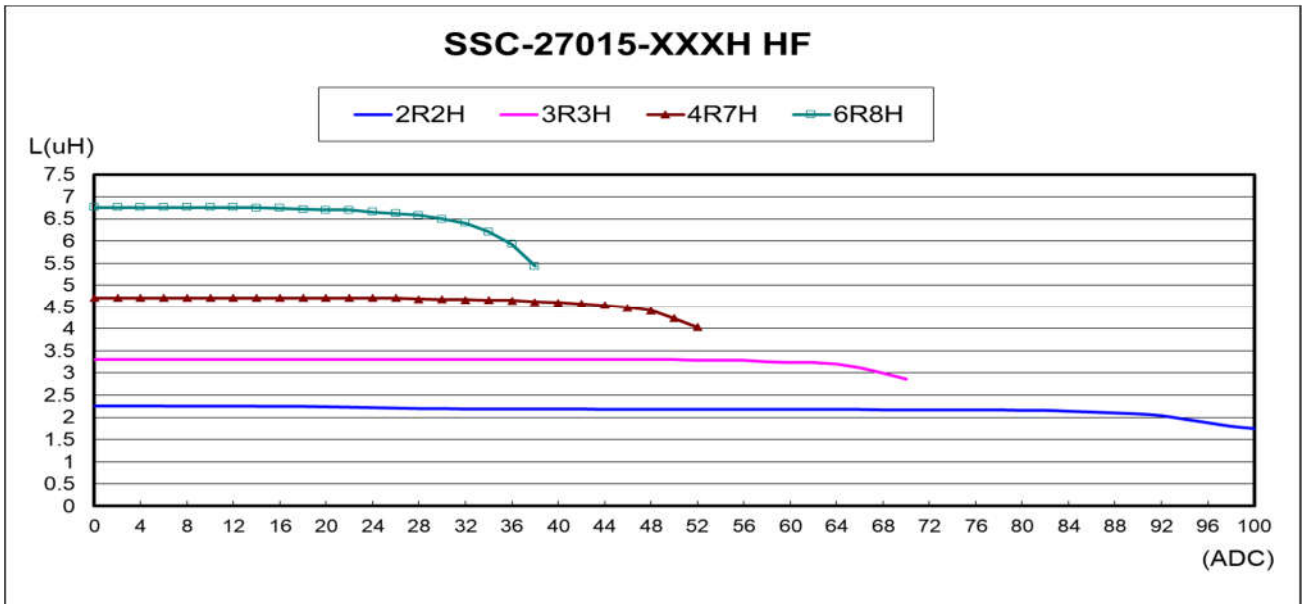
NOTE (5): Weight: SSC-27015H Series : 31 g / pcs. SSC-27015L Series : 29.5 g / pcs.

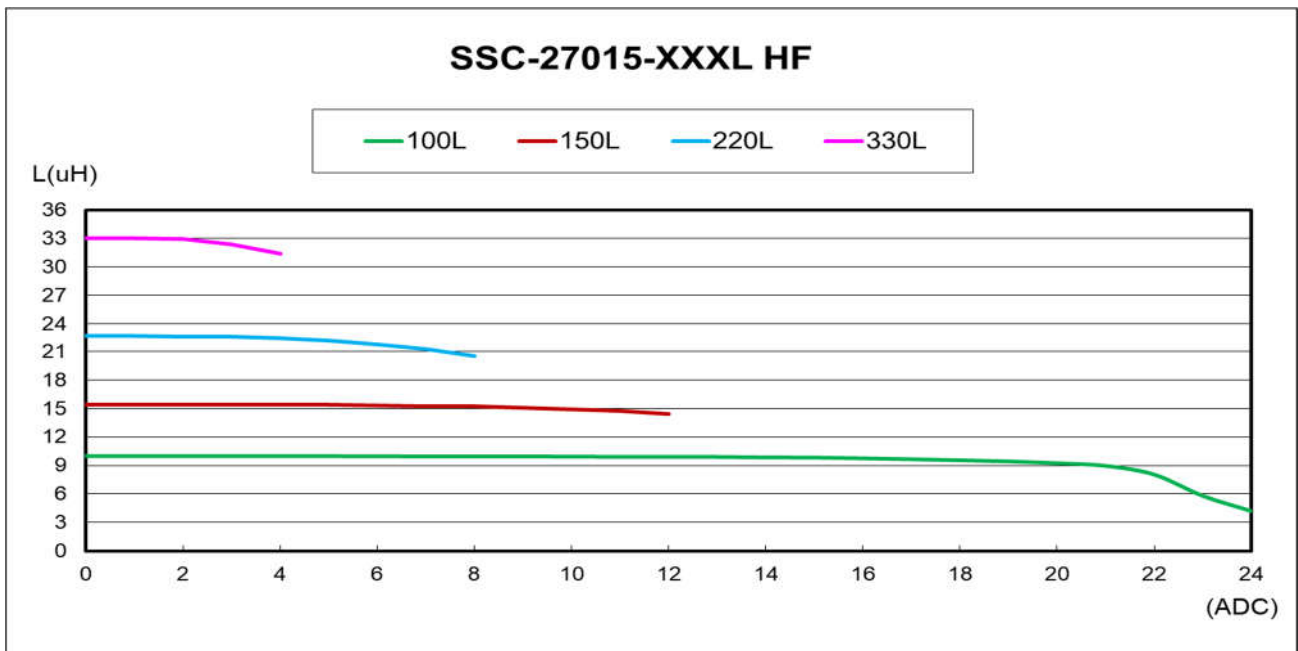
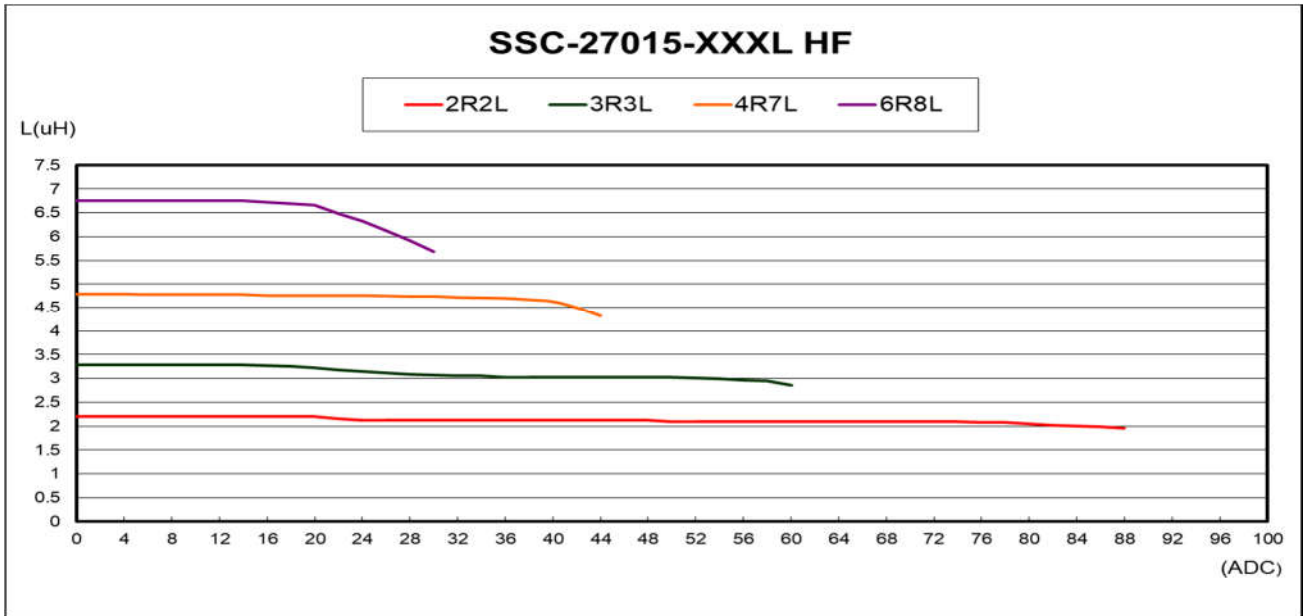
SSC-27018H Series : 34 g / pcs. SSC-27020 Series : 41 g / pcs.

PHYSICAL DIMENSION : (UNIT:mm)

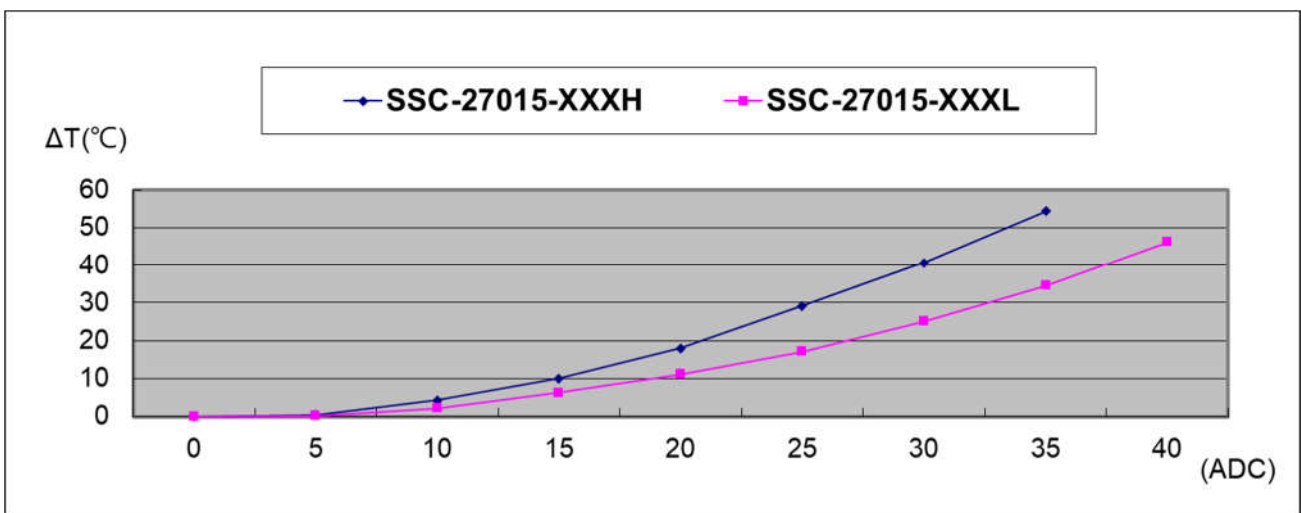


INDUCTANCE VS DC BIAS:

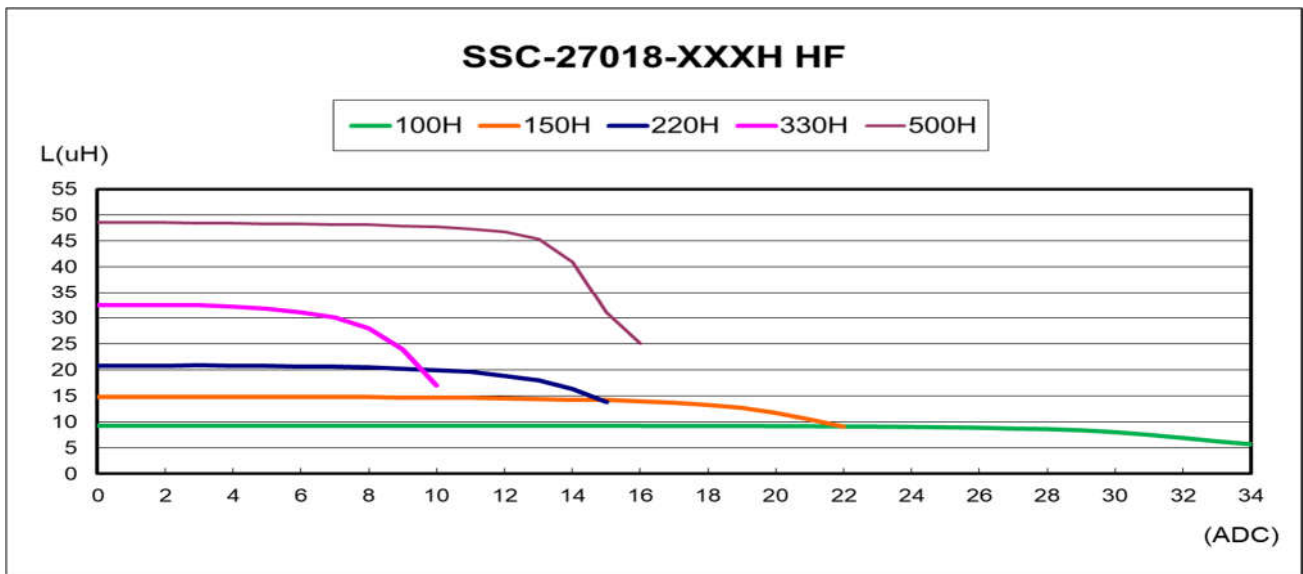
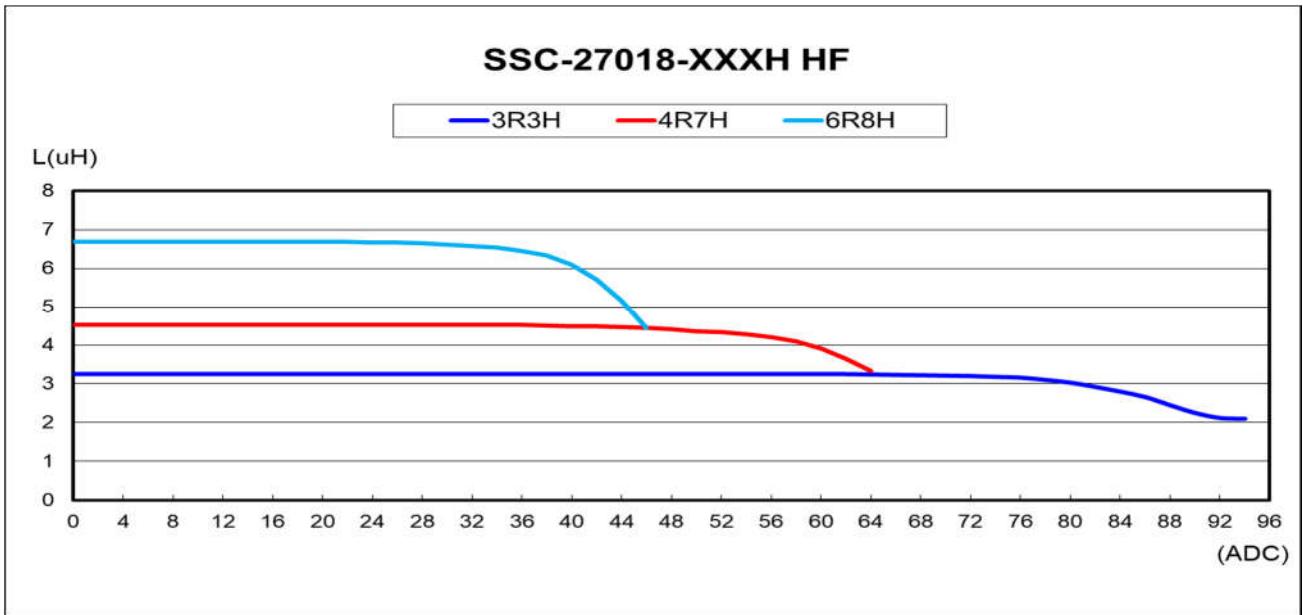




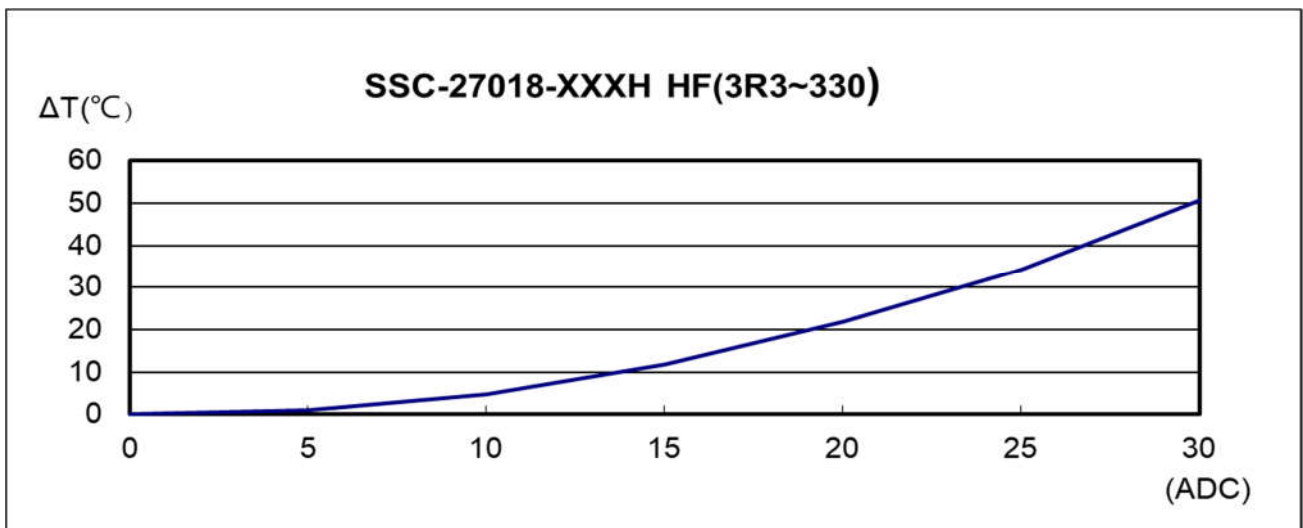
**TEMPERATURE RISE VS DC BIAS:**

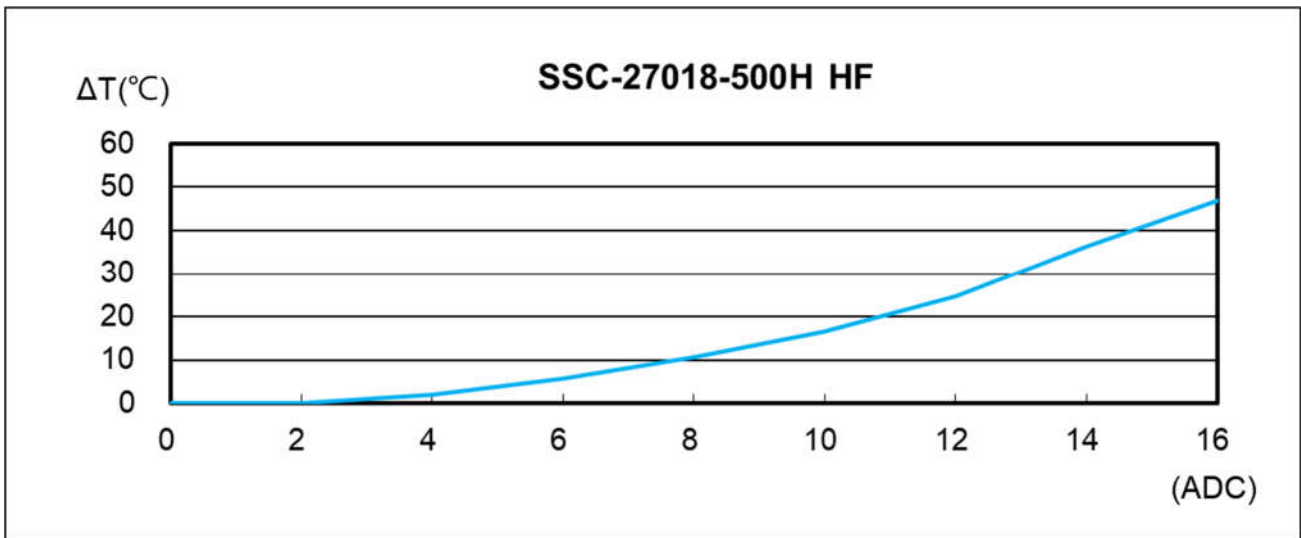
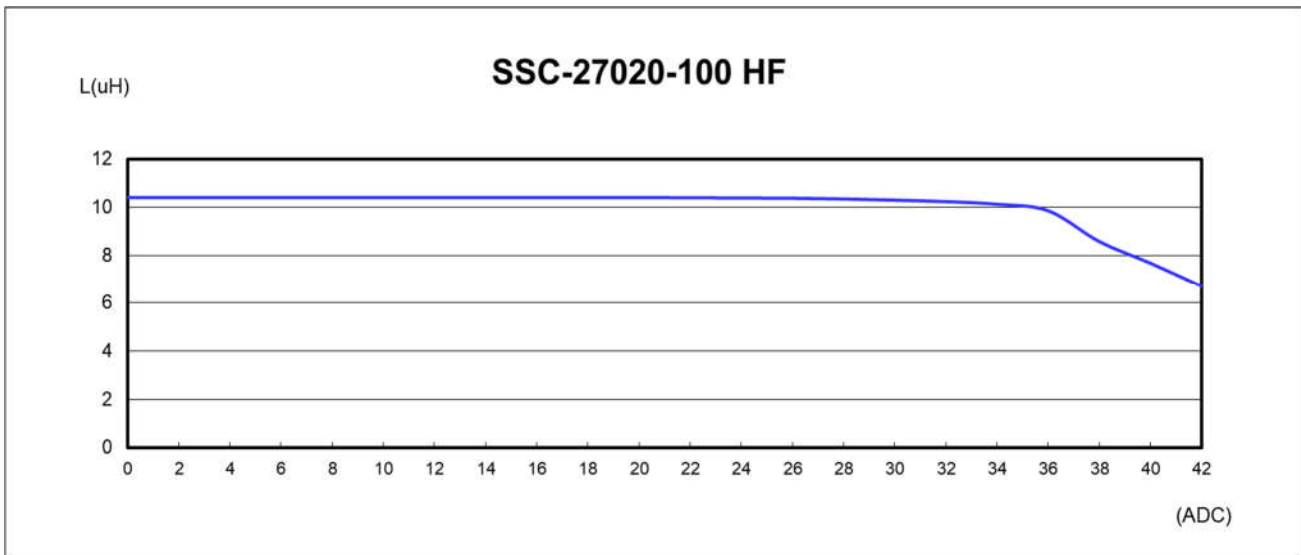


### INDUCTANCE VS DC BIAS:



### TEMPERATURE RISE VS DC BIAS:



**INDUCTANCE VS DC BIAS:****TEMPERATURE RISE VS DC BIAS:**