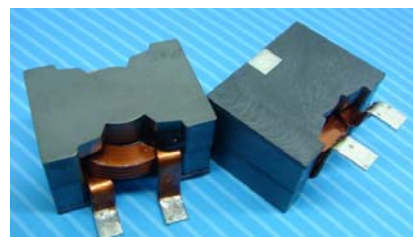


**HIGH CURRENT INDUCTORS****MODEL NO : SHI-270154MZ HF & SHI-270178MZ HF & SHI-270200MZ****Features :**

- \* SMD version .
- \* Low core loss and high efficiency performance .
- \* Close magnetic path for low leakage flux .
- \* Third mounting pad for greater stability and board adhesion .
- \* Low DCR with flat wire design .
- \* Compliant with RoHS and Halogen free .

**Application :**

- \* DC/DC converter in power regulation system .
- \* PV inverters .

**Electrical Specification :**

MODEL NO	INDUCTANCE (uH)±10% @0ADC	DCR ±10% (mΩ)	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	TOTAL HEIGHT MAX (mm)
SHI-270154MZ-2R2H HF	2.2	1.83	30	> 100	15.36
SHI-270154MZ-2R2L HF	2.2	1.50	30	84.8	15.36
SHI-270154MZ-3R3H HF	3.3	1.83	30	68.4	15.36
SHI-270154MZ-3R3L HF	3.3	1.50	30	57.0	15.36
SHI-270154MZ-4R7H HF	4.7	1.83	30	50.1	15.36
SHI-270154MZ-4R7L HF	4.7	1.50	30	39.0	15.36
SHI-270154MZ-6R8H HF	6.8	1.83	30	36.2	15.36
SHI-270154MZ-6R8L HF	6.8	1.50	30	27.8	15.36
SHI-270154MZ-100H HF	10	1.83	30	23.4	15.36
SHI-270154MZ-100L HF	10	1.50	30	17.6	15.36
SHI-270154MZ-150H HF	15	1.83	30	15.2	15.36
SHI-270154MZ-150L HF	15	1.50	30	11.0	15.36
SHI-270154MZ-220H HF	22	1.83	30	9.6	15.36
SHI-270154MZ-220L HF	22	1.50	30	6.8	15.36
SHI-270154MZ-330H HF	33	1.83	30	5.9	15.36
SHI-270154MZ-330L HF	33	1.50	30	3.3	15.36
SHI-270178MZ-3R3H HF	3.3	2.45	28	93.6	17.78
SHI-270178MZ-4R7H HF	4.7	2.45	28	62.4	17.78
SHI-270178MZ-6R8H HF	6.8	2.45	28	45.9	17.78
SHI-270178MZ-100H HF	10	2.45	28	32.1	17.78
SHI-270178MZ-150H HF	15	2.45	28	21.5	17.78
SHI-270178MZ-220H HF	22	2.45	28	14.5	17.78
SHI-270178MZ-330H HF	33	2.45	28	9.3	17.78
SHI-270190MZ-500H HF	50	10.5	15.0	15.0	19.0
SHI-270200MZ-100H HF	10	3.45	28	41.0	19.8

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

NOTE (2): ΔT=40℃ 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℃ ~ +125℃ .

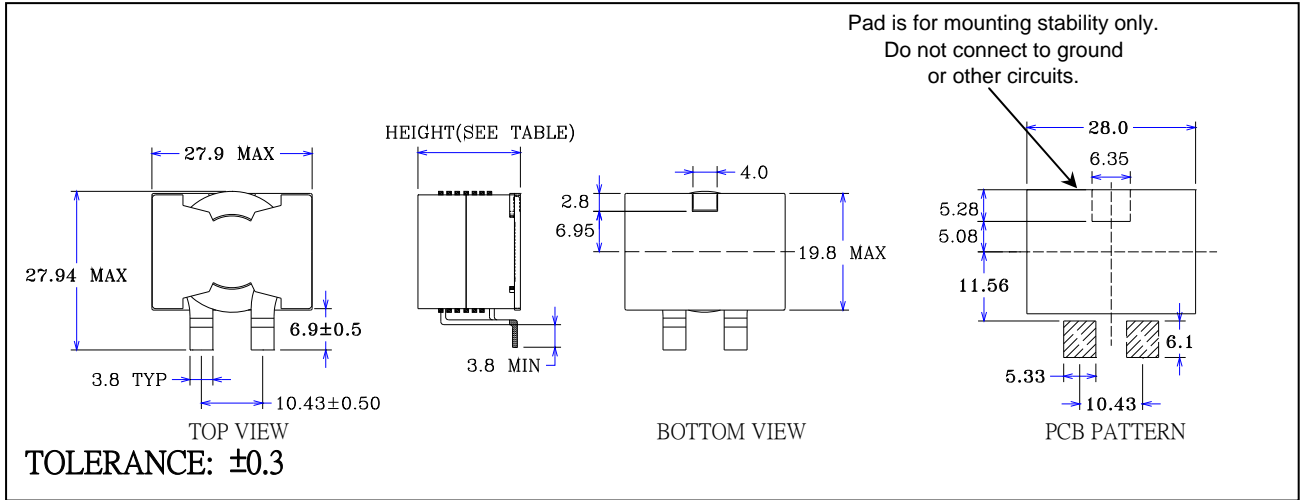
NOTE (5): Weight: SHI-27015MZ-XXXH Series : 31 g / pcs.

SHI-27015MZ-XXXL Series : 29.5 g / pcs.

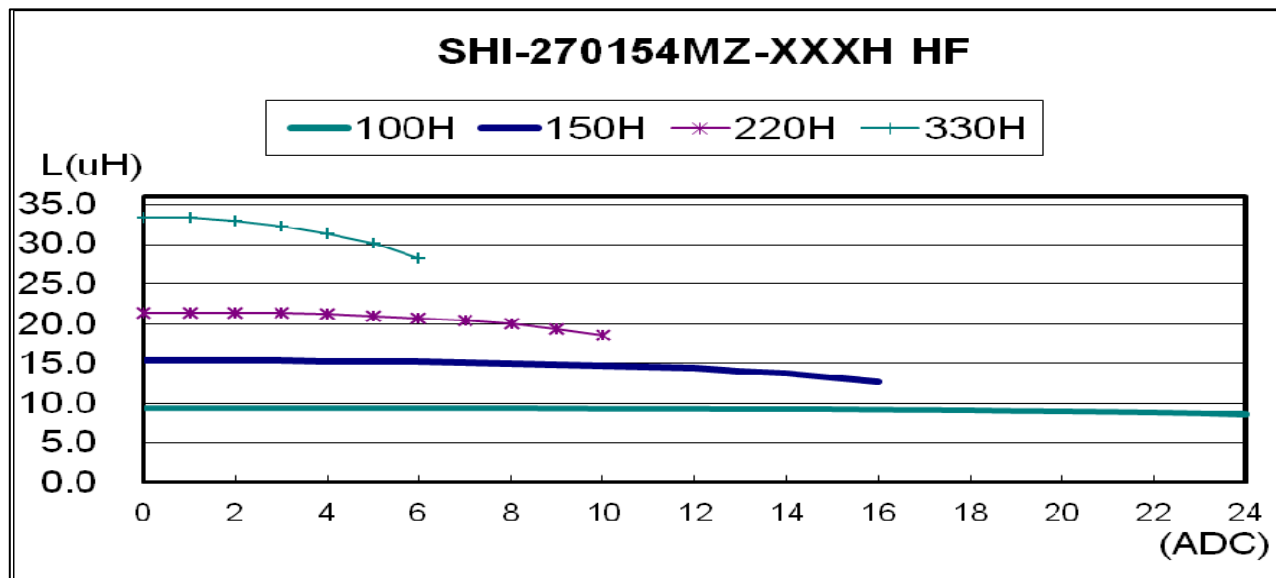
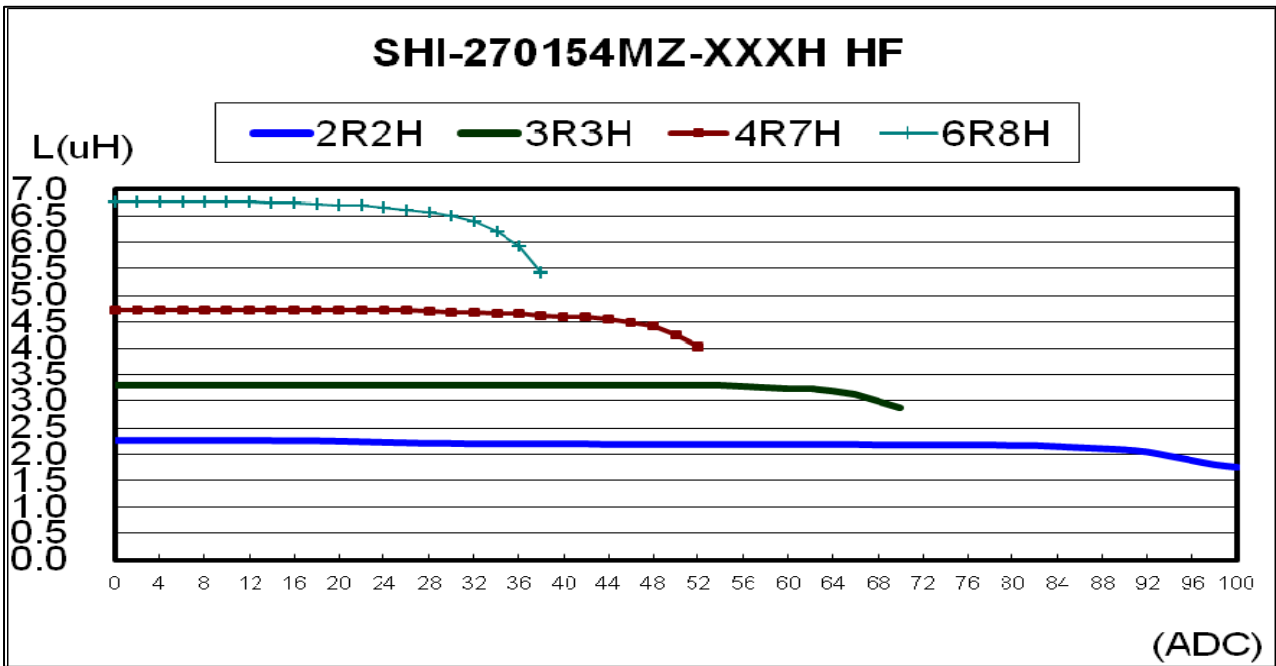
SHI-27018MZ-XXXH Series: 34 g / pcs.

SHI-27020MZ-XXXH Series : 41 g / pcs.

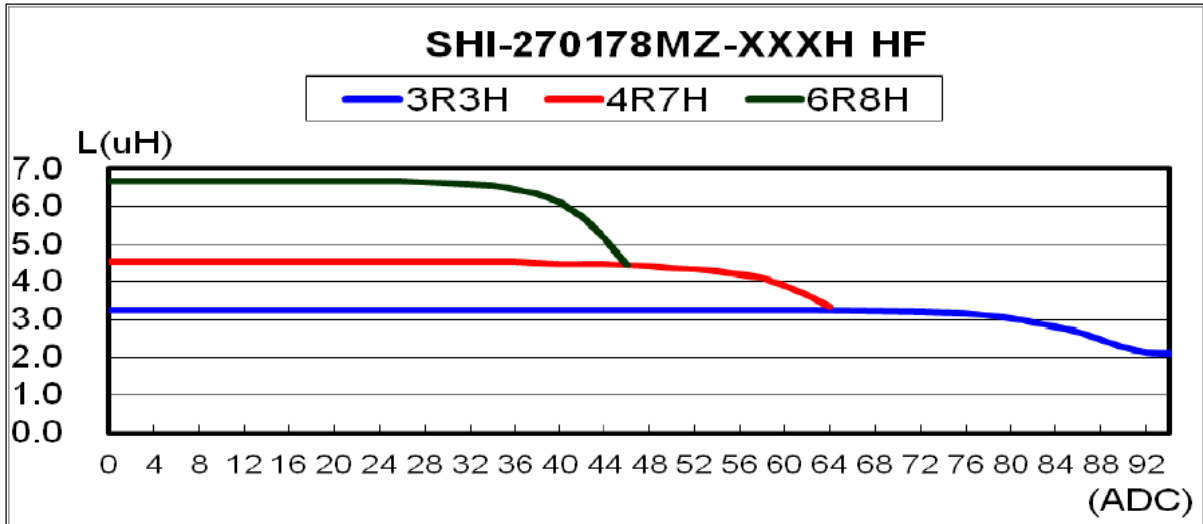
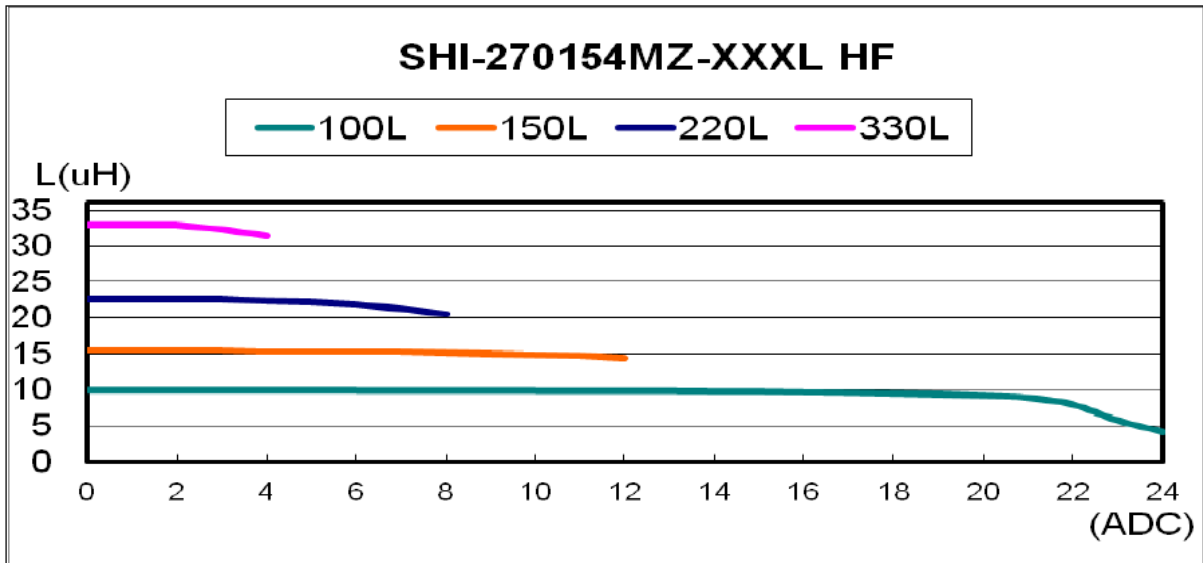
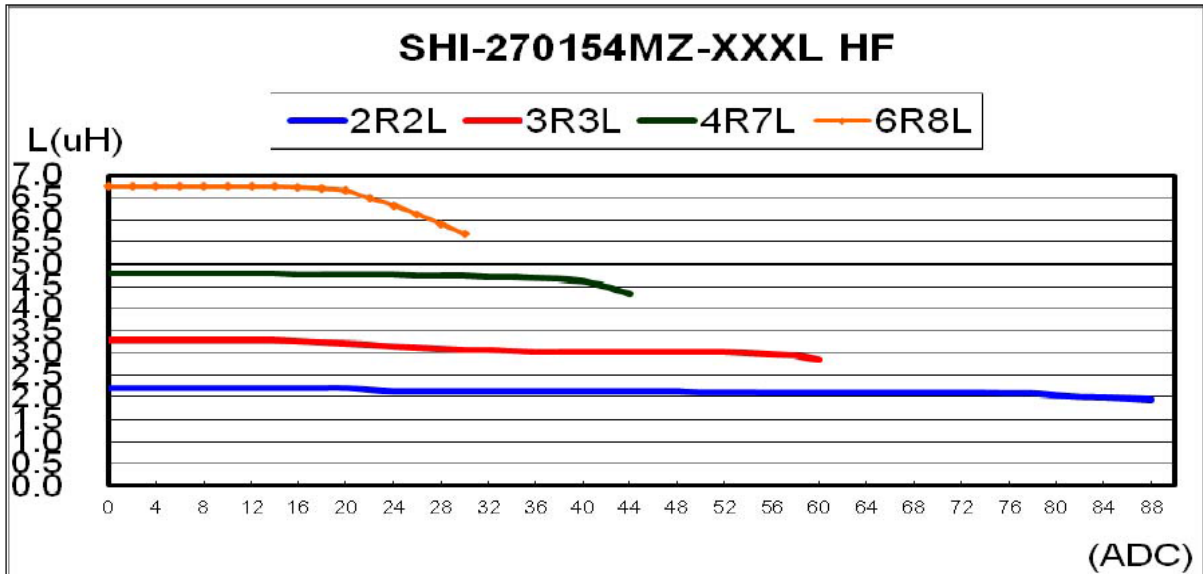
Physical Dimension : (unit :mm)



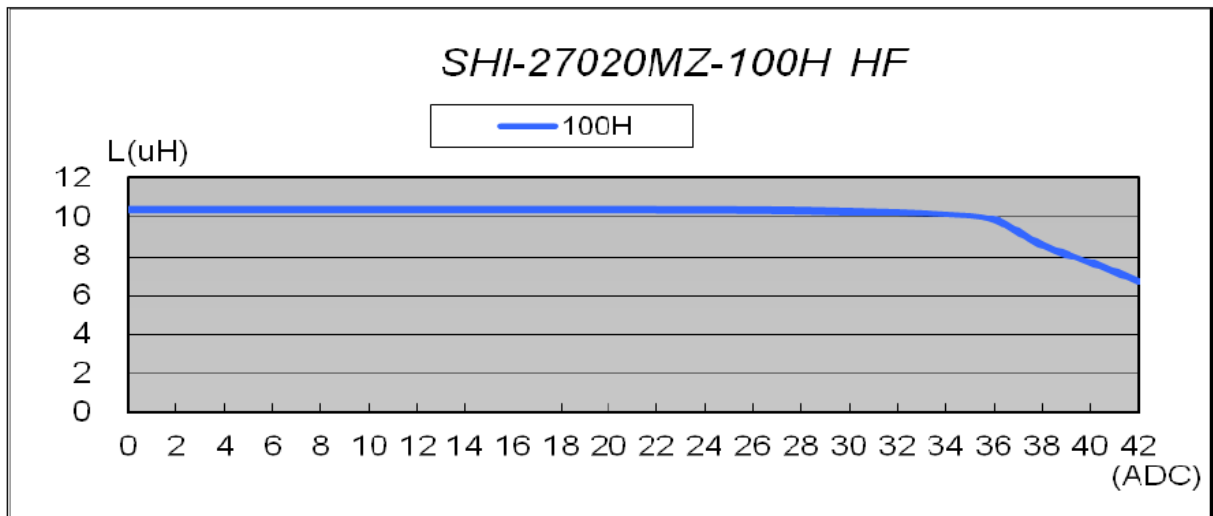
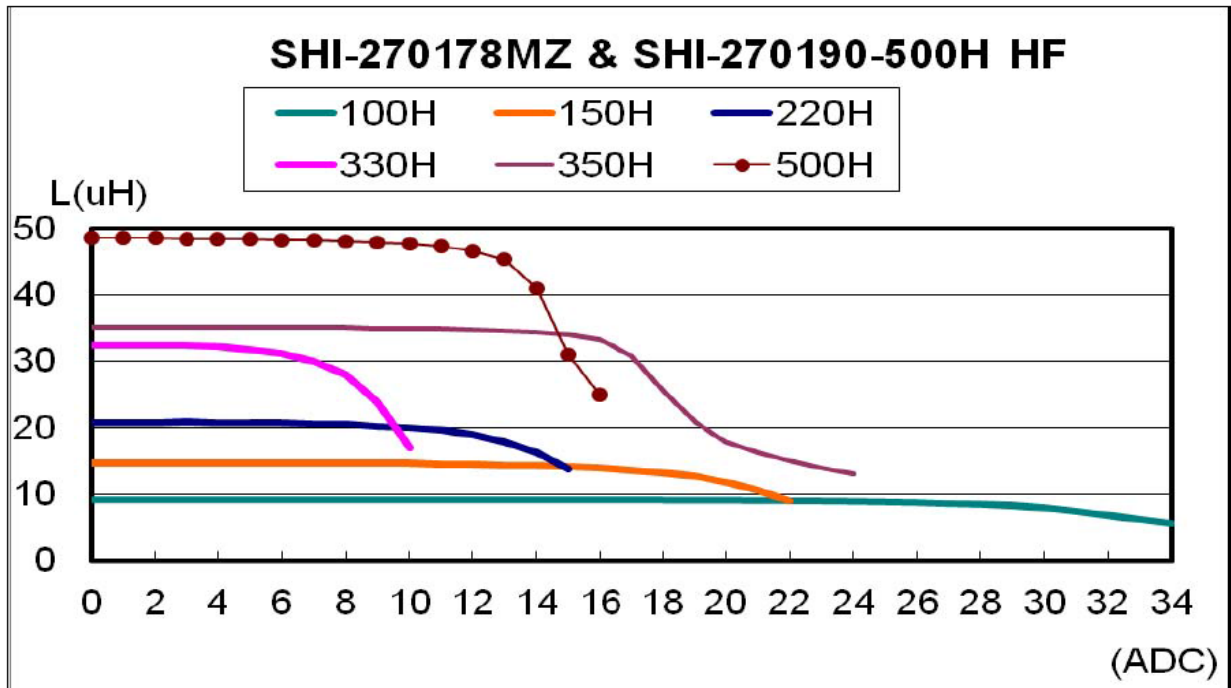
INDUCTANCE vs DC BIAS:



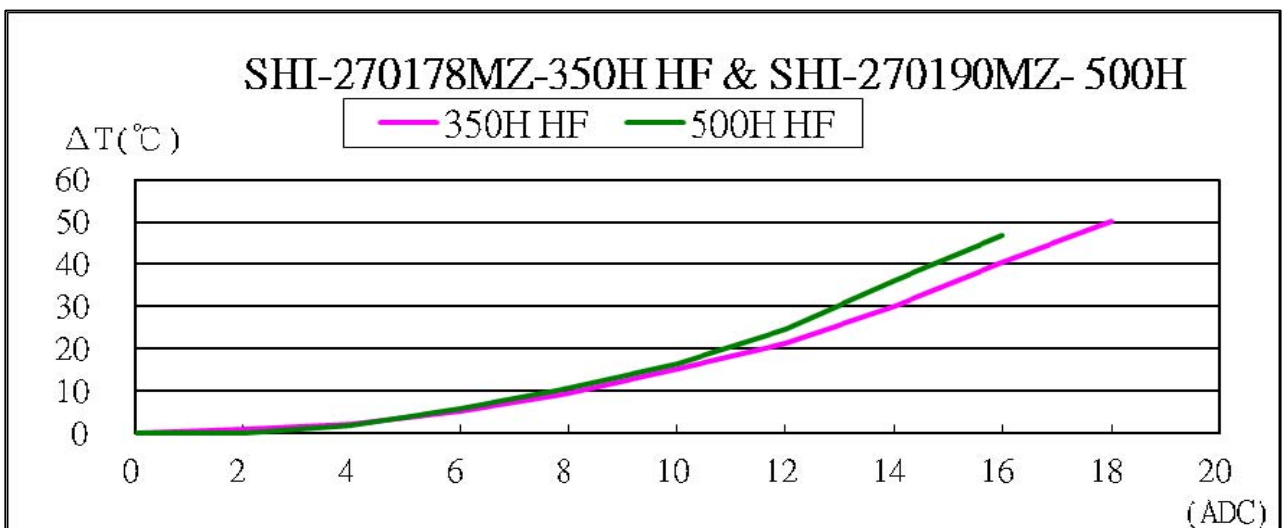
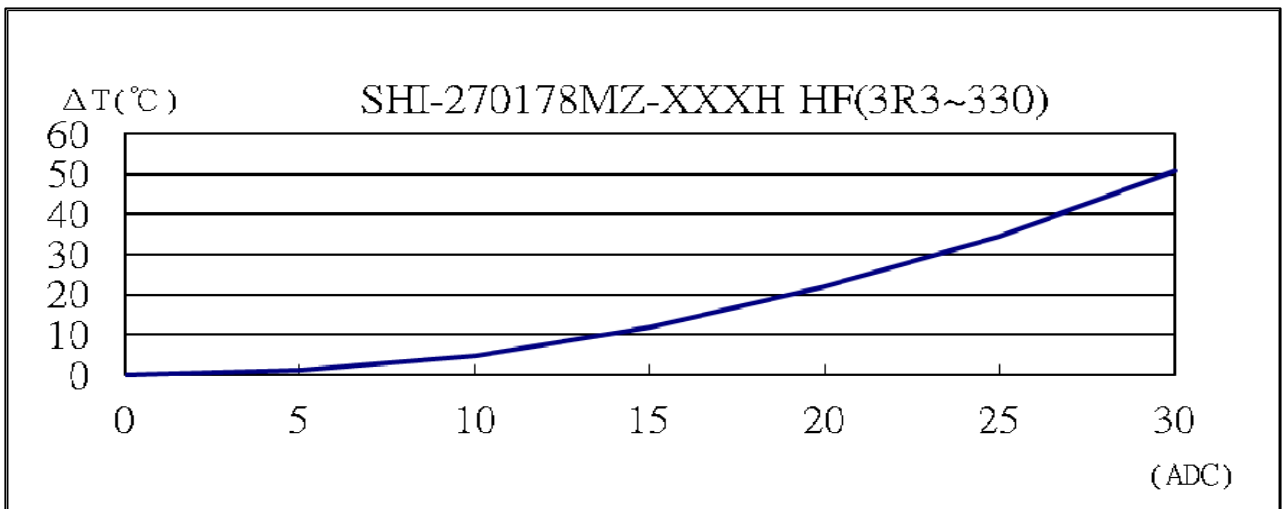
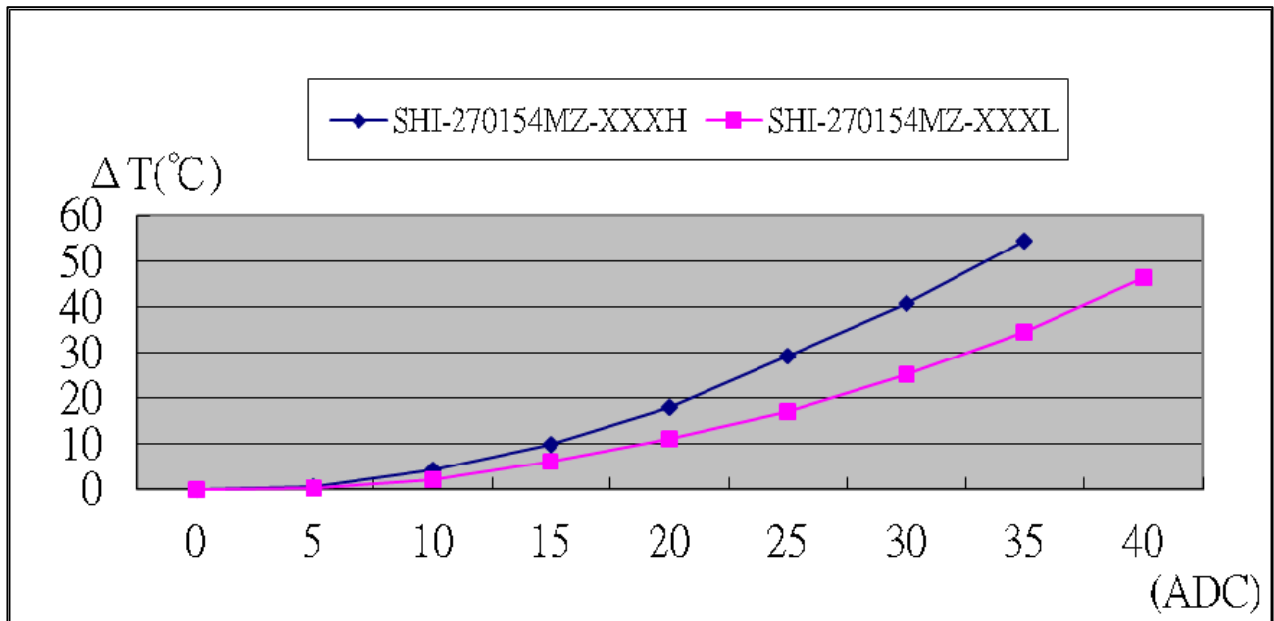
INDUCTANCE vs DC BIAS:



INDUCTANCE vs DC BIAS:



TEMPERATURE RISE vs DC BIAS:



TEMPERATURE RISE vs DC BIAS:

