

### MODEL NO. : HCI-0750 SERIES



#### Features :

- \* SMD version .
- \* 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 .

#### Application :

- \* Automobile .
- \* VGA card .
- \* DC/DC converter in power regulation system .



#### Electrical Specification :

PART NO	INDUCTANCE ( $\mu$ H) $\pm$ 20% @0ADC	INDUCTANCE ( $\mu$ H)TYP @ TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC) (NOTE 2)	INDUCTANCE ( $\mu$ H)TYP @SATURATION CURRENT	SATURATION CURRENT (ADC) (NOTE 3)	DCR $\pm$ 10% (m $\Omega$ )
HCI075-R24	0.24 $\pm$ 30%	0.19	24.0	0.18	30.0	0.93
HCI075-R47	0.47	0.35	22.0	0.36	20.5	1.20
HCI075-R76	0.76	0.54	17.0	0.55	15.0	2.50
HCI075-1R1	1.1	0.75	15.0	0.8	13.0	3.20
HCI075-1R5	1.5	1.0	13.0	1.1	12.0	4.50
HCI075-2R0	2.0	1.4	11.0	1.5	10.0	6.20
HCI075-2R6	2.6	1.8	9.0	1.9	8.0	8.70
HCI075-3R3	3.3	2.2	8.5	2.3	8.0	9.50
HCI075-4R0	4.0	2.7	7.0	2.7	7.0	13.10
HCI075-4R9	4.9	3.4	6.5	3.4	6.5	15.10
HCI075-5R8	5.8	3.9	6.0	4.0	5.7	17.80
HCI075-6R5	6.5	4.5	5.3	4.6	5.3	22.2
HCI075-7R6	7.6	5.4	4.4	5.3	4.8	27.7
HCI075-8R5	8.5	5.9	4.4	5.8	4.5	29.4
HCI075-100	10	7.2	3.7	7.0	4.0	32.7

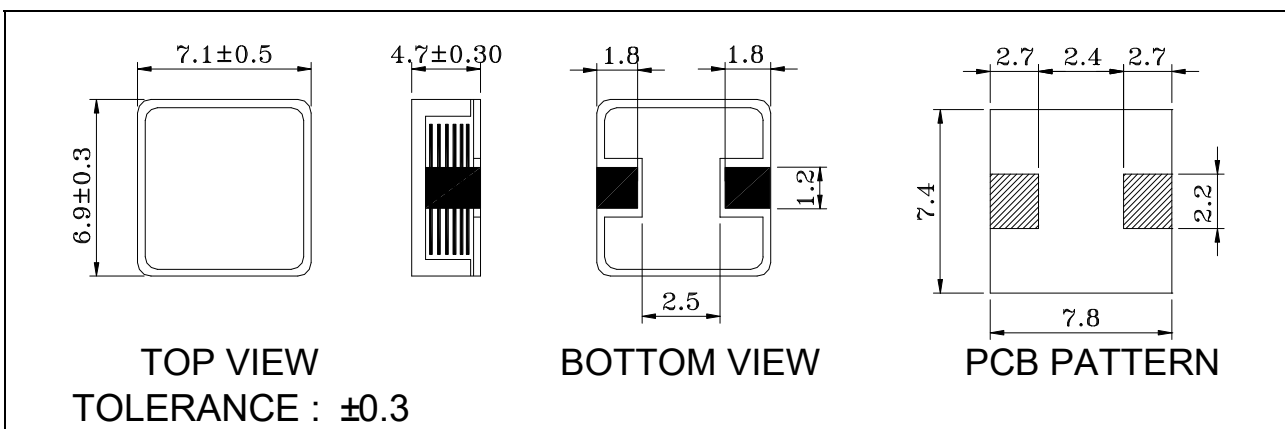
NOTE(1):Measuring condition : 100 KHZ,0.1vrms.

NOTE(2): $\Delta$  T =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.

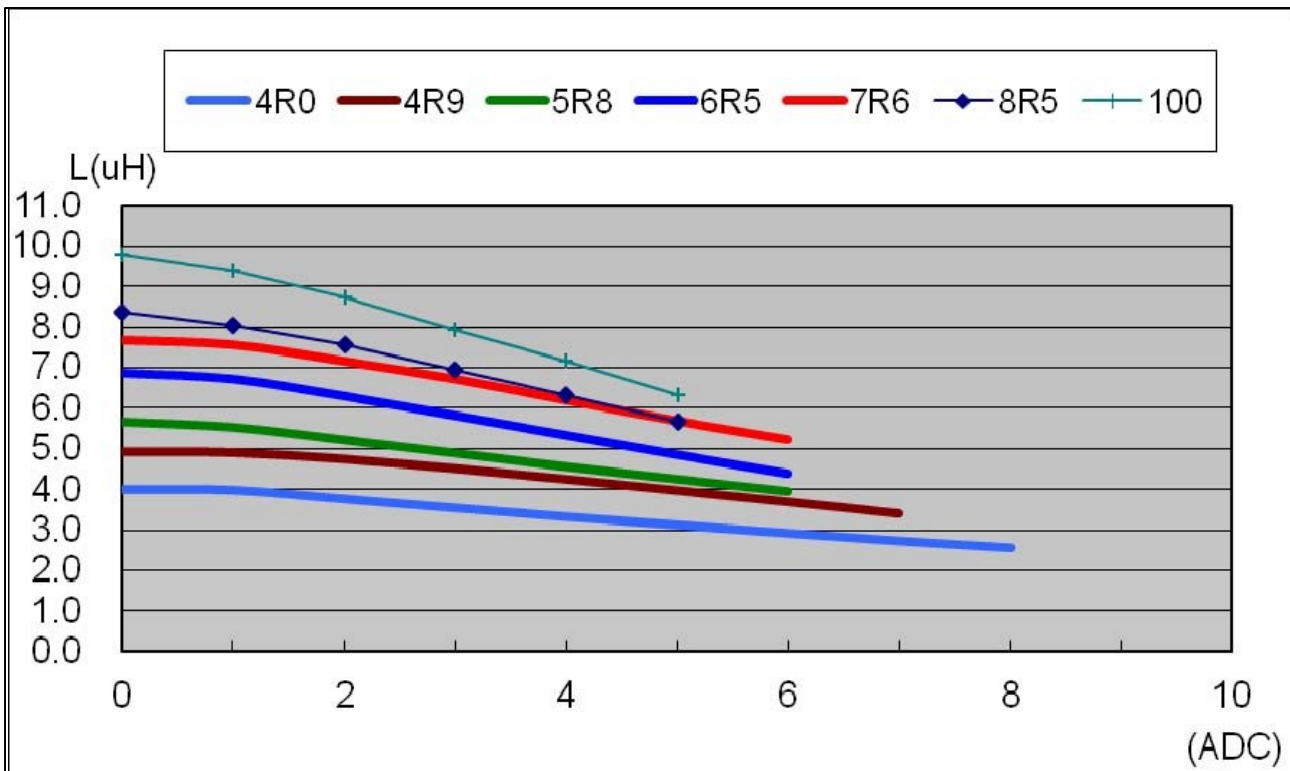
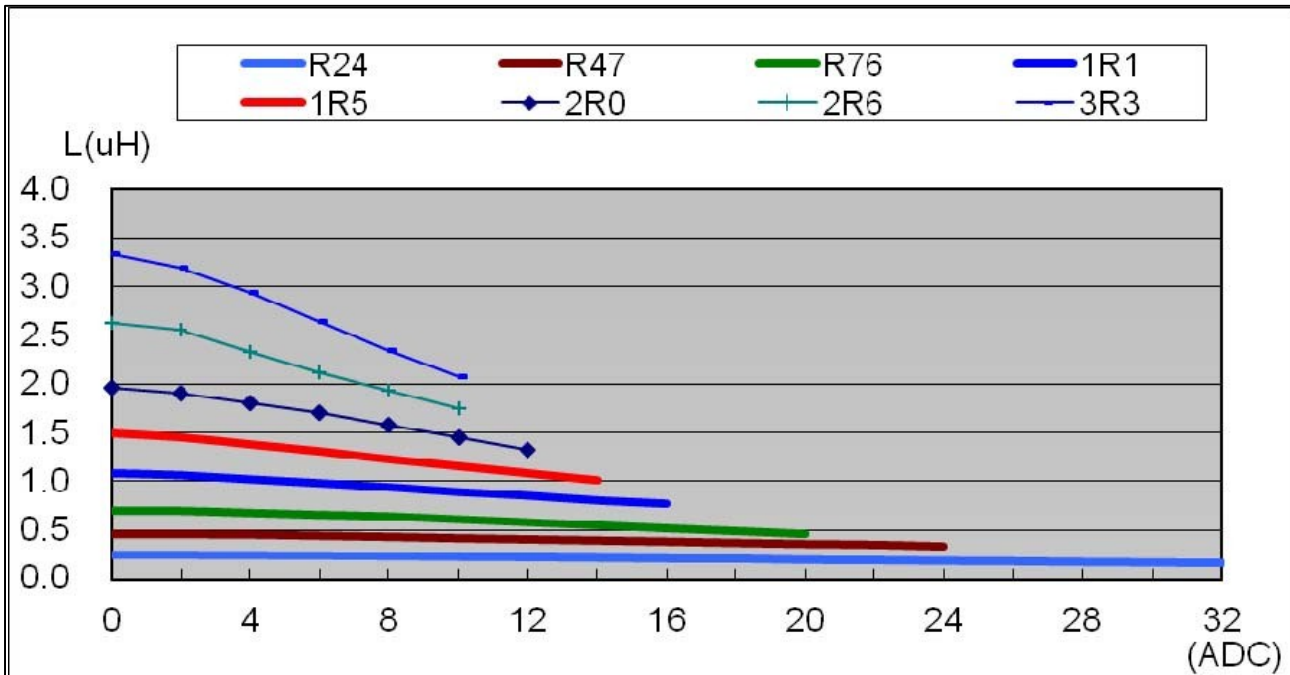
#### Physical Dimension : (unit :mm)



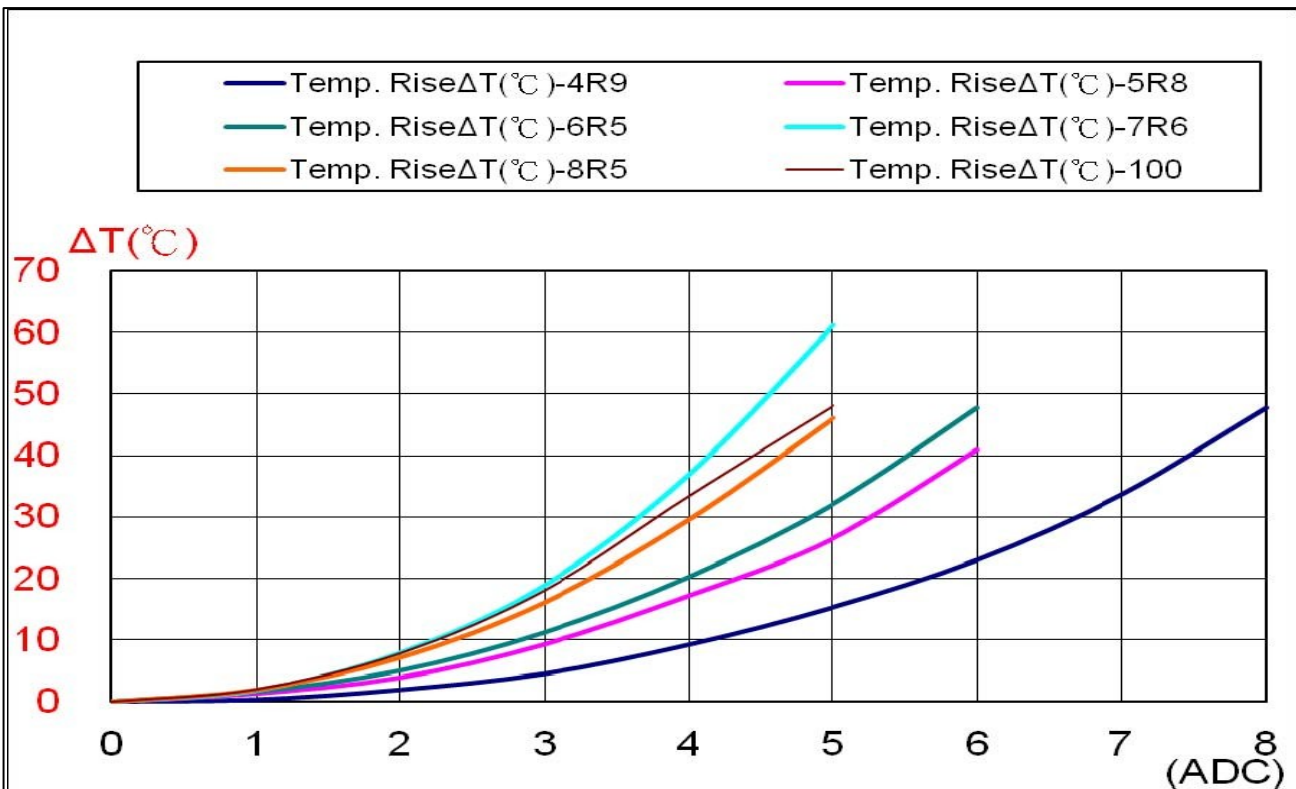
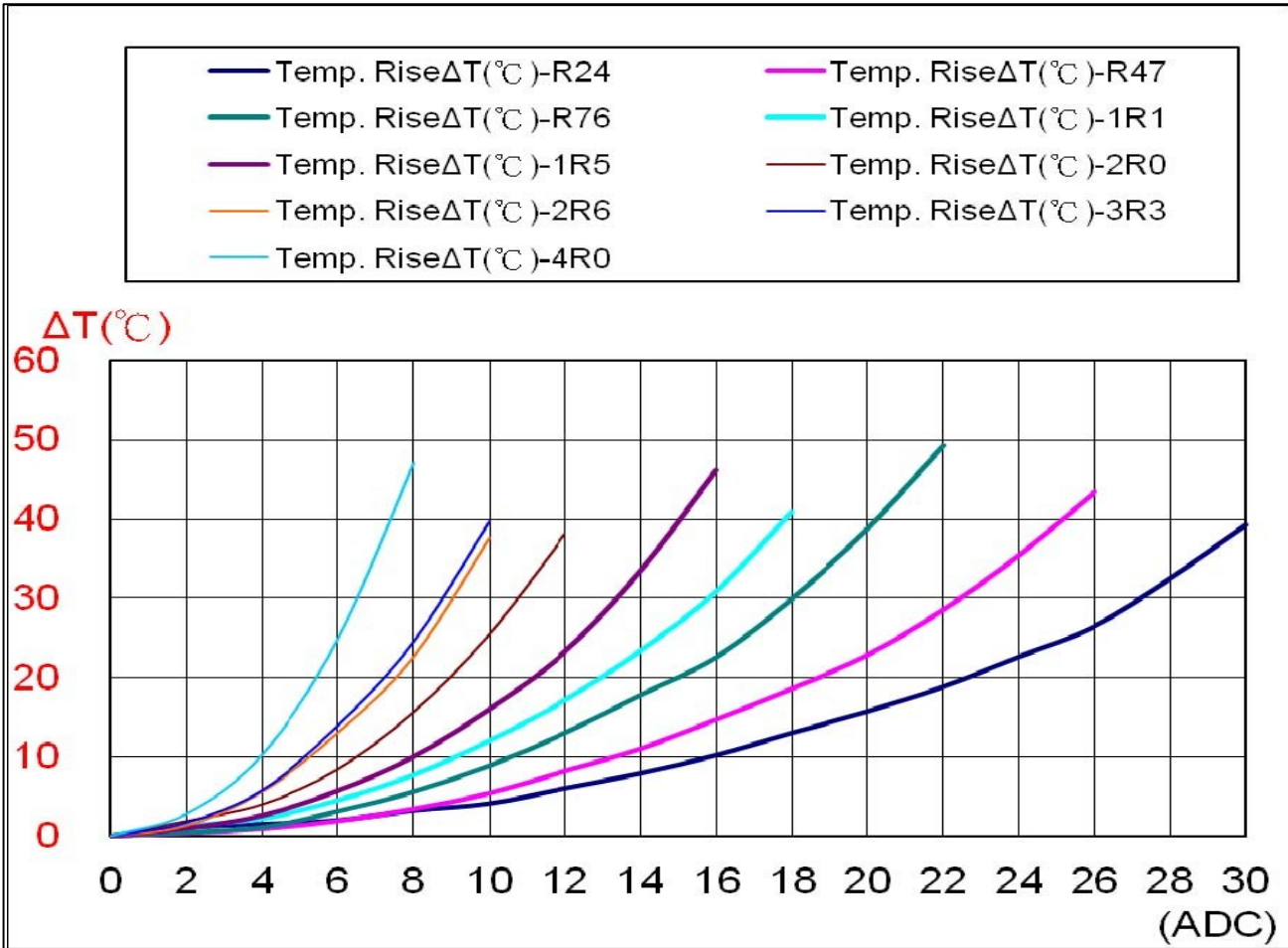
#### PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1000PCS.
2. TAP WIDTH : 1.6 mm .
3. REE WIDTH : 2.4 mm .
4. COMPONENT CH : 1.2 mm

INDUCTANCE vs DC BIAS:



TEMPERATURE RISE vs DC BIAS:



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