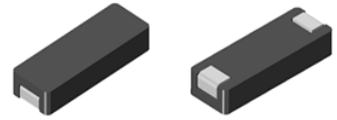


# Co-fired Alloy Power Inductor-HTF Series

Operating Temp. : -40°C~+125°C (Including self-heating)



## FEATURES

- Ultra-thin
- High operating current and low loss
- High reliability

## APPLICATIONS

- CPU power supply for high-end PC/PAD
- VRM/TLVR power supply for server/AI server
- Large current, ultra-thin application

## PRODUCT IDENTIFICATION

**HTF**

①

**130517**

②

**H**

③

**R14**

④

**L**

⑤

**T**

⑥

□□□

⑦

①	Type
HTF	Co-fired Alloy Power Inductor

②	External Dimensions(L×W×H) [mm]
100424	10.0×4.0×2.4
130517	12.8×4.8×1.7
120840	12.8×8.2×4.0
070415	7.0×4.5×1.5

③	Feature Type
H	Internal Code

④ Nominal Inductance	
Example	Nominal Value
R10	0.10uH
R14	0.14uH
R22	0.22uH
50N	0.05uH

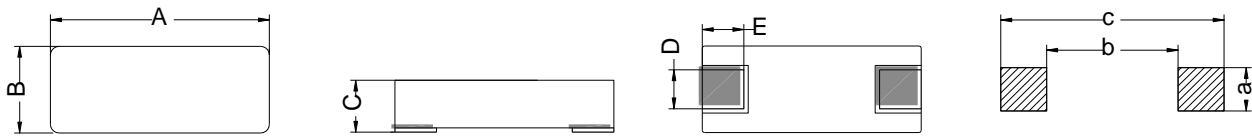
⑤ Inductance Tolerance	
L	±15%
M	±20%

⑥ Packing	
T	Tape & Reel

⑦ Design Code	
□□□	Design Code
* Standard product is blank	

## SHAPE AND DIMENSIONS

Recommended Land Pattern (Typ.)



Unit: mm

Series	A	B	C	D	E	a	b	c
HTF100424HR10LT	10.0±0.2	4.0±0.2	2.4 Max.	3.5±0.3	1.5±0.3	3.9 Typ.	6.6 Typ.	10.4 Typ.
HTF130517HR14LT	12.8±0.2	4.8 Max.	1.7 Max.	2.2±0.3	1.5±0.3	2.6 Typ.	9.4 Typ.	13.2 Typ.
HTF120840HR22MT	12.8±0.4	8.2 Max.	4.0 Max.	3.5±0.5	2.5±0.5	5.0 Typ.	6.0 Typ.	14.5 Typ.
HTF070415H50NLT	7.0±0.2	4.5±0.2	1.3±0.2	2.5±0.3	1.5±0.3	2.9 Typ.	3.6 Typ.	7.4 Typ.

## SPECIFICATIONS

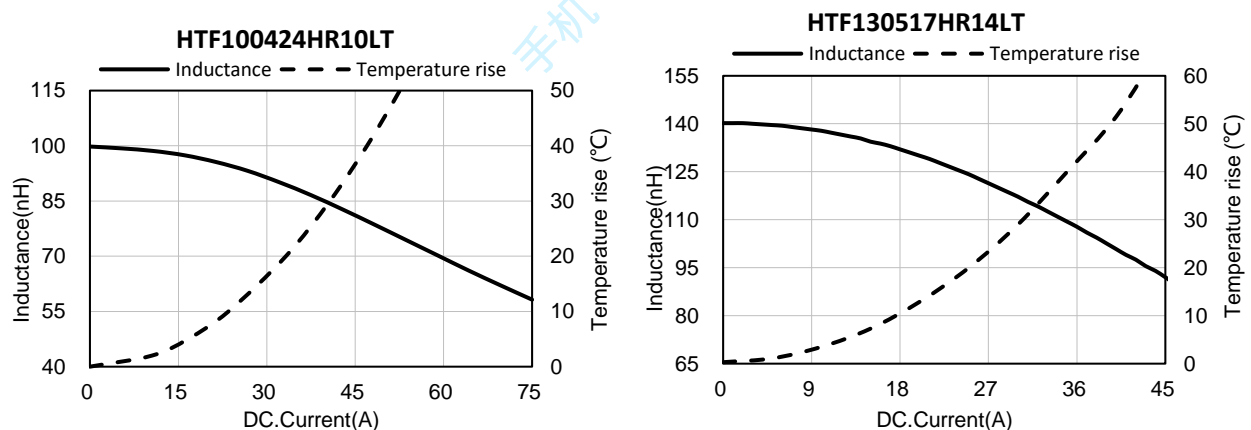
Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
Units	nH	mΩ		A		A	
Symbol	L	DCR		Isat <sup>*2</sup>		Irms <sup>*3</sup>	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
HTF100424HR10LT	100±15%	0.35	0.30	51	57	38	45
HTF130517HR14LT	140±15%	0.45	0.35	36	40	36	42
HTF120840HR22MT	220±20%	0.60	0.39	63	70	38	45
HTF070415H50NLT	50±15%	0.27	0.25	40	45	40	45

※1 : Rated current: Isat (max.) or Irms (max.), whichever is smaller;

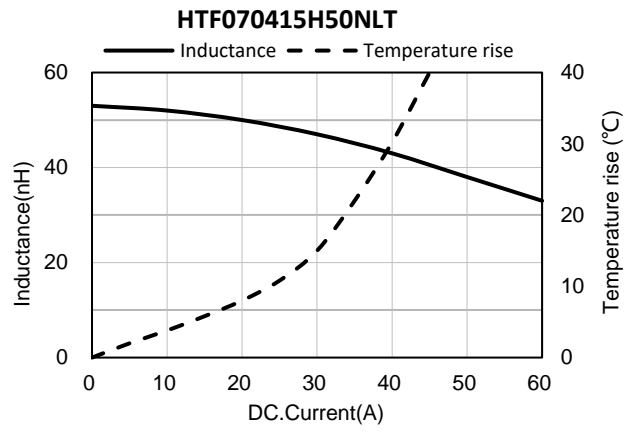
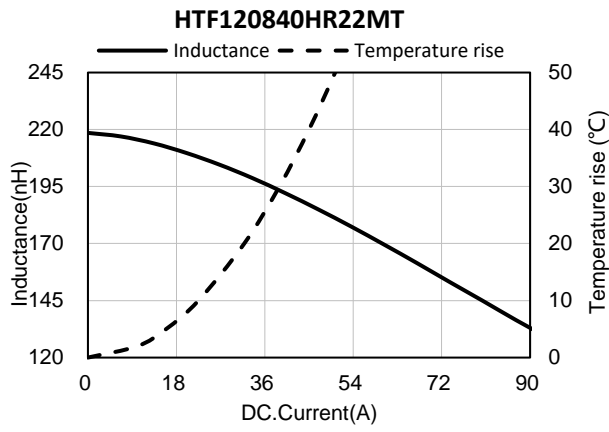
※2 : Saturation Current: *Max. Value*, DC current at which the inductance drops less than 30% from its value without current;  
*Typ. Value*, DC current at which the inductance drops 30% from its value without current;

※3 : Irms: DC current that causes the temperature rise ( $\Delta T$ ) from 20°C ambient.  
For *Max. Value*,  $\Delta T < 40^\circ\text{C}$ ; for *Typ. Value*,  $\Delta T$  is approximate 40°C.

## TYPICAL ELECTRICAL CHARACTERISTICS



# TYPICAL ELECTRICAL CHARACTERISTICS



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