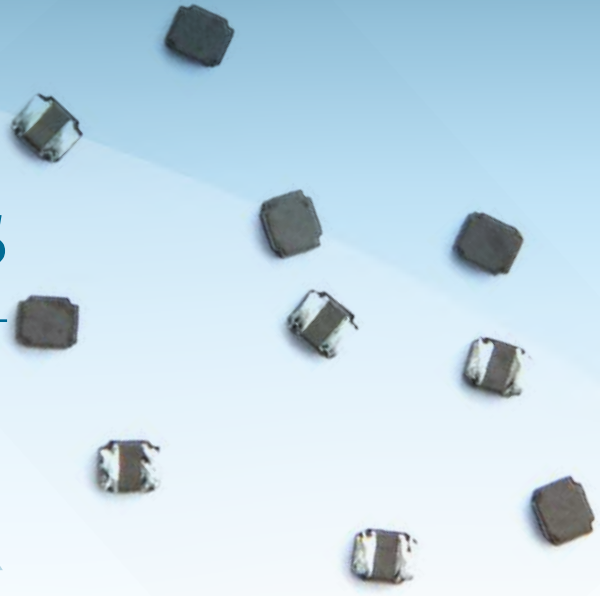


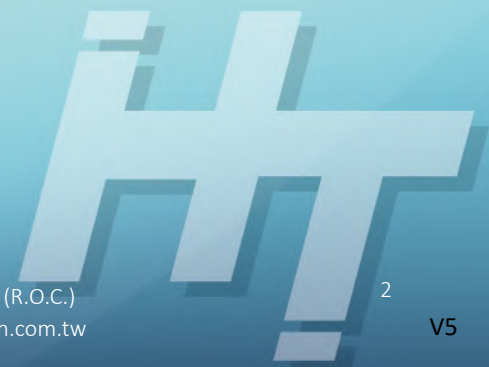


# HNT-E Series

# INDEX



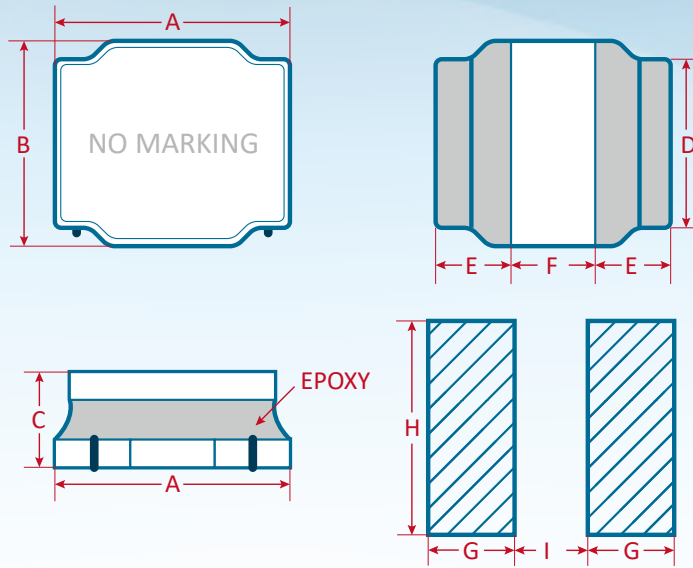
- ◎ **HNT2010-E** (2.0\*1.7\*1.05) ..... **P.3-P.6**  
- Inductance Range : 0.47~10(uH)
  
- ◎ **HNT2512-E** (2.5\*2.0\*1.2) ..... **P.7-P.10**  
- Inductance Range : 0.10~22(uH)
  
- ◎ **HNT3015-E** (3.0\*3.0\*1.5) ..... **P.11-P.14**  
- Inductance Range : 0.47~22(uH)
  
- ◎ **HNT4020-E** (4.1\*4.1\*2.1) ..... **P.15-P.18**  
- Inductance Range : 0.33~22(uH)



# HNT-E Series

## SMD Power Inductor

Shape and Dimensions(mm):

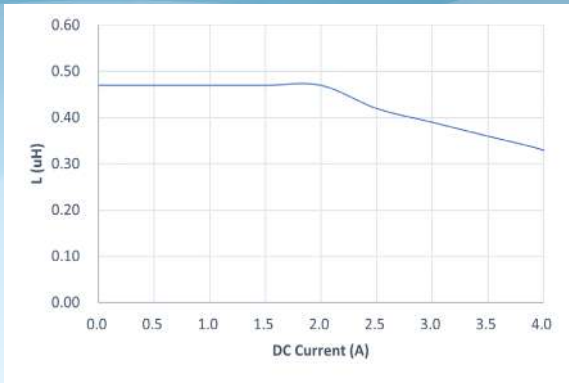


Item	A	B	C	D	E	F	G	H	I
HNT2010-E	2.0±0.2	1.7±0.2	1.05 Max	1.5 Ref.	0.6 Ref.	0.8 Ref.	0.9 Ref.	1.8 Ref.	0.5 Ref.

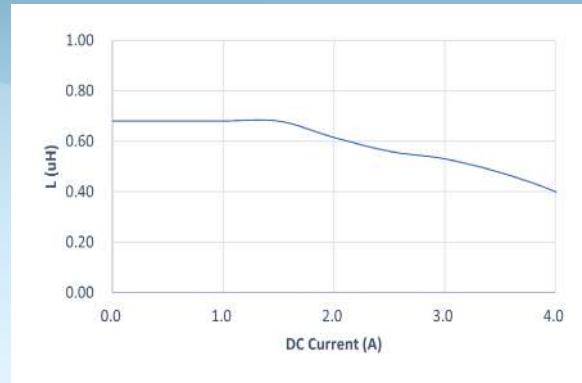
### HNT2010-E

Part No.	Inductance (uH)	DCR(mΩ) Max.	Isat(A) Max.	Irms(A) Max.	Tolerance (±%)
HNT2010NTR47-E	0.47	55	4.0	3.0	30
HNT2010NTR68-E	0.68	65	3.5	3.0	30
HNT2010MT1R0-E	1.0	96	3.35	2.5	20
HNT2010MT2R2-E	2.2	195	1.9	1.5	20
HNT2010MT3R3-E	3.3	310	1.4	1.0	20
HNT2010MT4R7-E	4.7	440	1.2	0.9	20
HNT2010MT6R8-E	6.8	540	0.9	0.8	20
HNT2010MT100-E	10	826	0.8	0.65	20

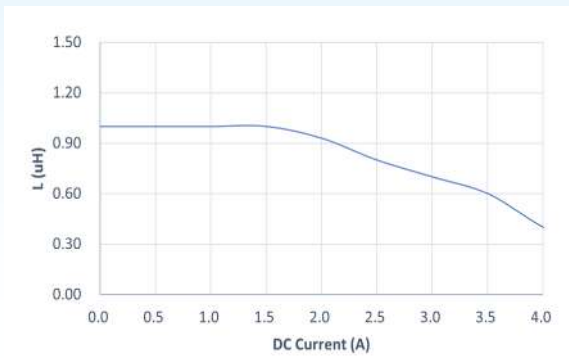
HNT2010NTR47-E



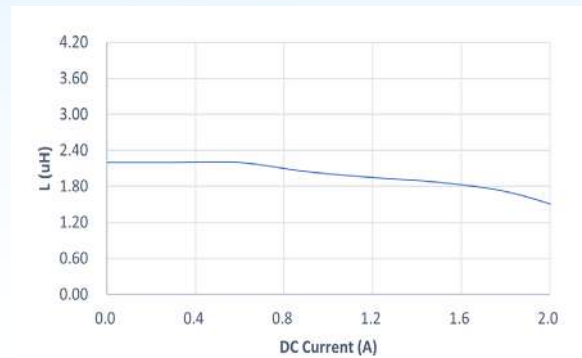
HNT2010NTR68-E



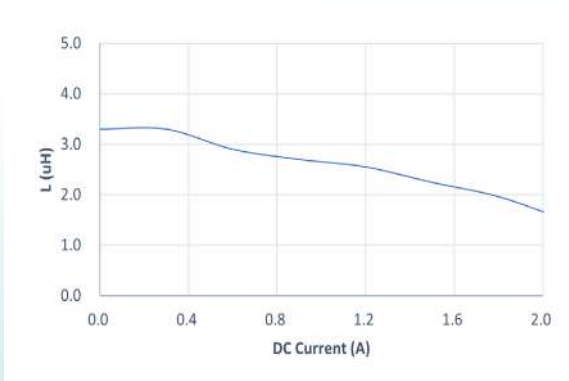
HNT2010MT1R0-E



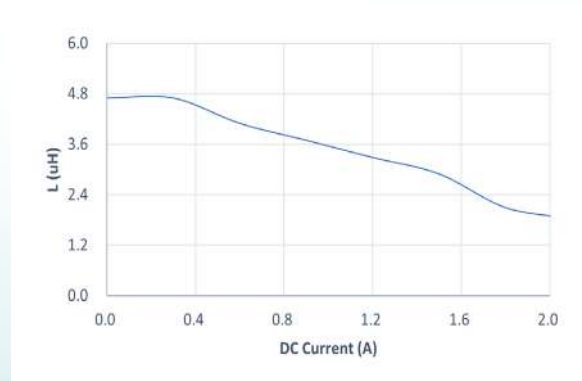
HNT2010MT2R2-E



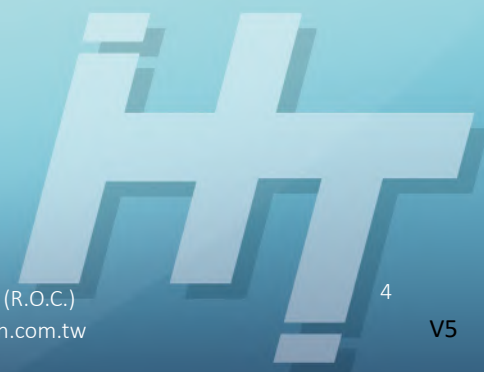
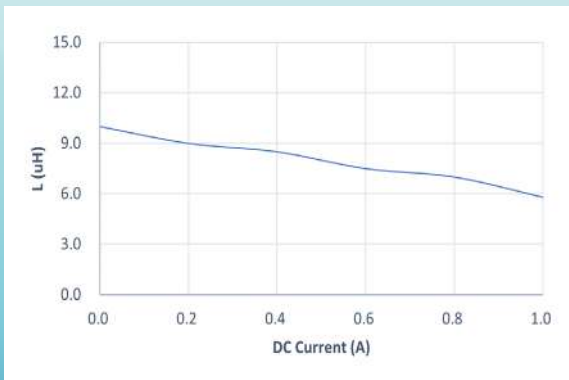
HNT2010MT3R3-E



HNT2010MT4R7-E



HNT2010MT100-E



### Ordering information

#### HNT - 2010 - M - T - 1R0 - E

(1) (2) (3) (4) (5)

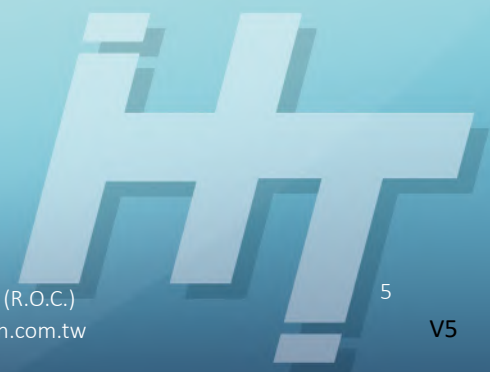
- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 2010 is size
- ( 3 ) Tolerance : N=30% M=20%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R24 for 0.24uH, 1R0 for 1.0uH, 100 for 10uH...

### Characteristics

- Isat : DC current (A) that will cause Lo to drop approximately 35% (Max.)
- Irms : DC current (A) that will cause an approximate  $\Delta T$  of 40°C (Max.)
- Operating temperature range : -40°C to +125°C

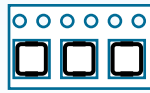
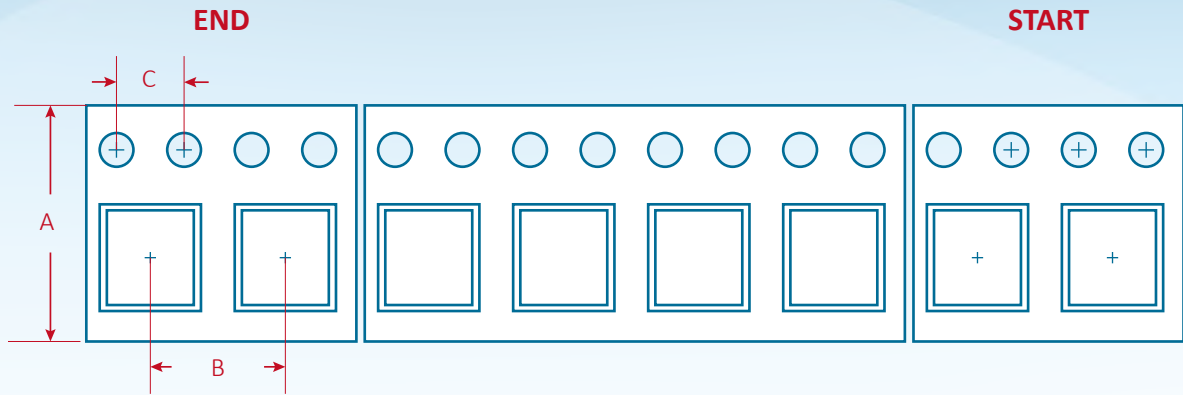
### Test equipment

- Test Frequency : 1MHz/ 1.0V
- L : 4285A, CH1062+CH1310
- DCR: 502BC

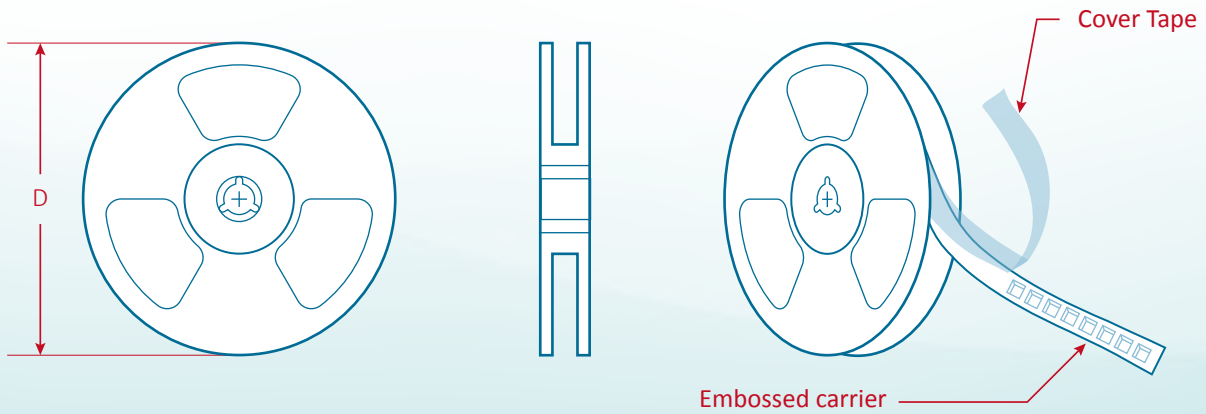
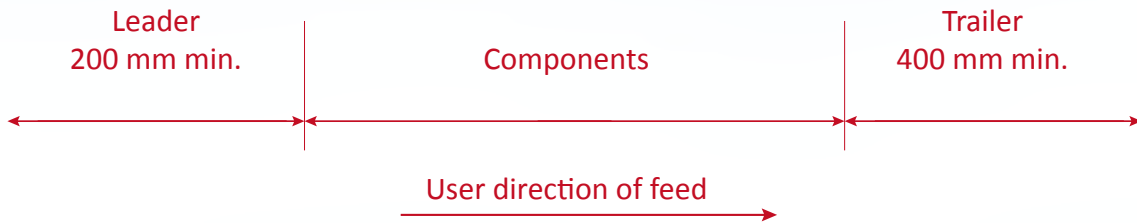


# Packing

Dimensions in mm



Bottom View

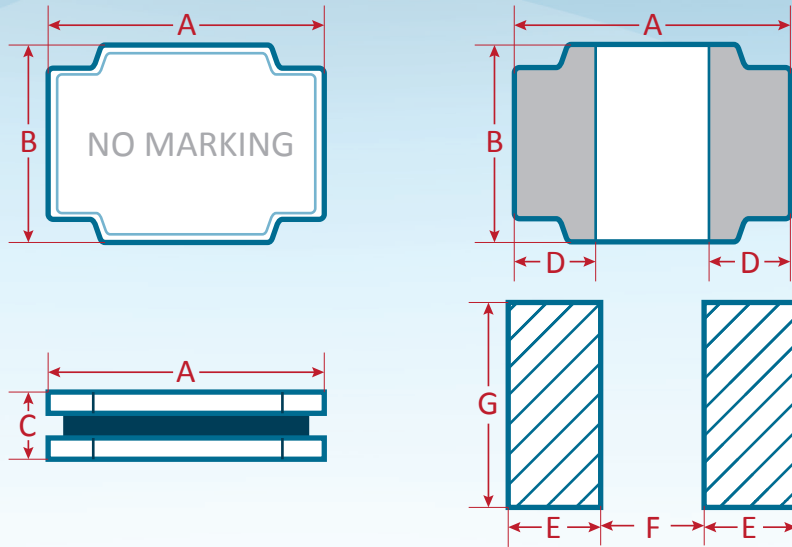


Item	A	B	C	D
HNT2010-E	8.0	4.0	4.0	179.0±0.5
Reel				
Q'ty(Pcs)				
2,000				

# HNT-E Series

## SMD Power Inductor

Shape and Dimensions(mm):



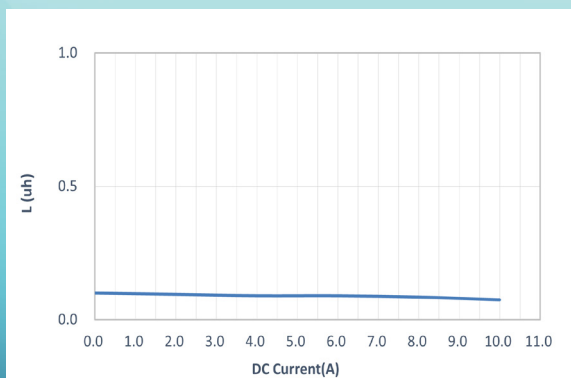
Item	A	B	C	D	E	F	G
HNT2512-E	2.5±0.2	2.0±0.2	1.2±0.1	0.75±0.1	0.85 Typ.	0.8 Typ.	2.0 Typ.

### HNT2512-E

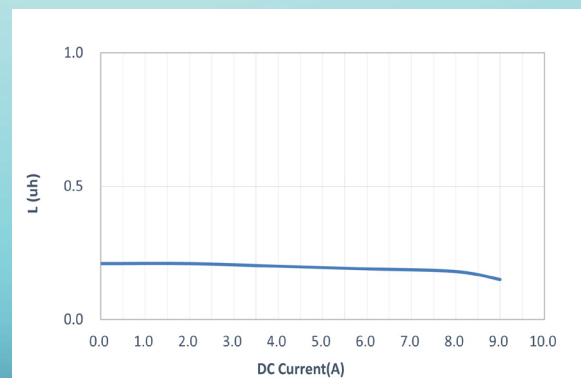


Part No.	Inductance (uH)	DCR(mΩ)		Isat(A)		Irms(A)		Tolerance (±%)
		Max.	Typ.	Max.	Typ.	Max.	Typ.	
HNT2512NTR10-E	0.10	13	9.5	8.5	6.5	5.8	30	
HNT2512MTR22-E	0.22	23	8.2	7.0	4.8	4.1	20	
HNT2512MTR24-E	0.24	23	8.5	7.4	6.0	5.0	20	
HNT2512MTR33-E	0.33	28	6.8	5.8	4.6	3.8	20	
HNT2512MTR47-E	0.47	35	7.0	6.0	4.1	3.5	20	
HNT2512MTR68-E	0.68	43	5.0	4.2	3.7	3.2	20	
HNT2512MT1R0-E	1.0	48	4.3	3.7	3.5	3.0	20	
HNT2512MT1R5-E	1.5	72	3.7	3.1	2.9	2.5	20	
HNT2512MT2R2-E	2.2	100	3.0	2.5	2.4	2.1	20	
HNT2512MT3R3-E	3.3	150	2.5	2.1	2.2	1.9	20	
HNT2512MT4R7-E	4.7	230	2.3	2.0	1.7	1.5	20	
HNT2512MT6R8-E	6.8	350	1.9	1.6	1.4	1.2	20	
HNT2512MT100-E	10	480	1.6	1.3	1.1	1.0	20	
HNT2512MT220-E	22	1320	1.1	0.9	0.7	0.6	20	

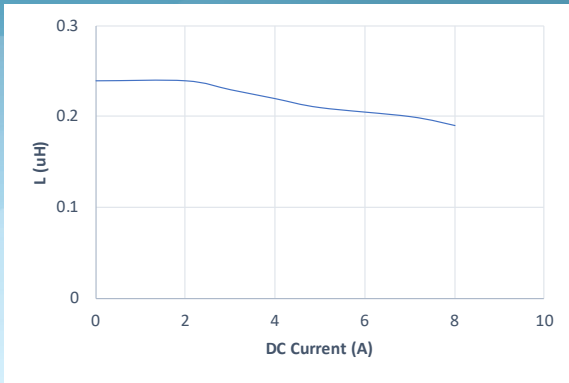
### HNT2512NTR10-E



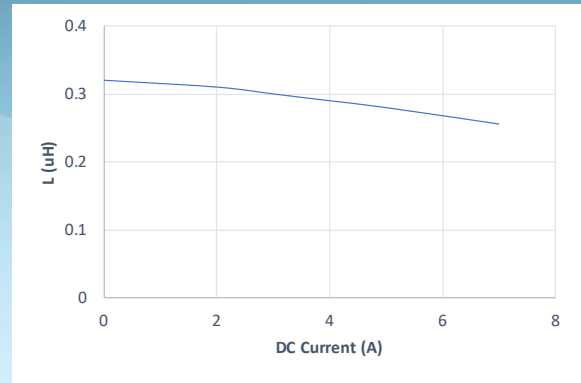
### HNT2512MTR22-E



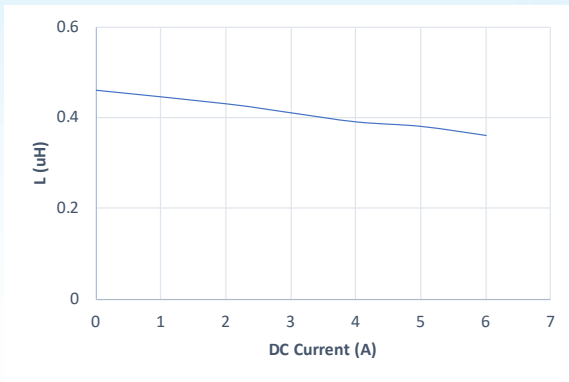
HNT2512MTR24-E



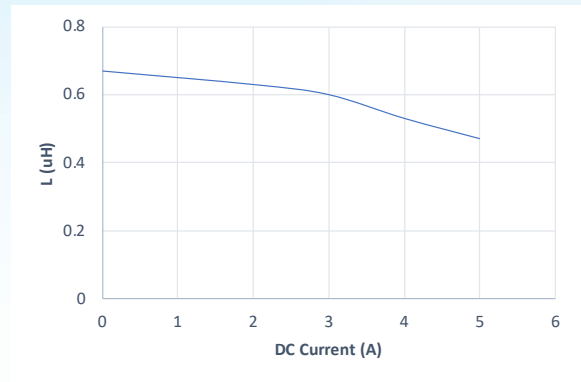
HNT2512MTR33-E



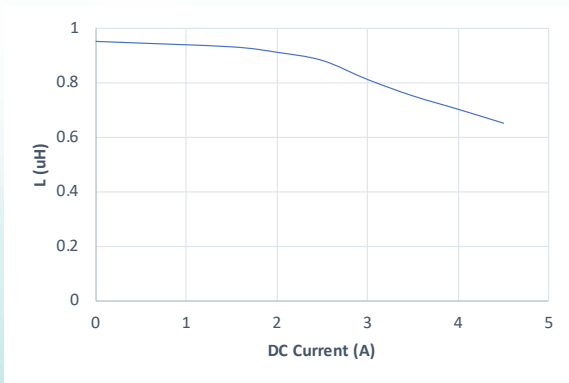
HNT2512MTR47-E



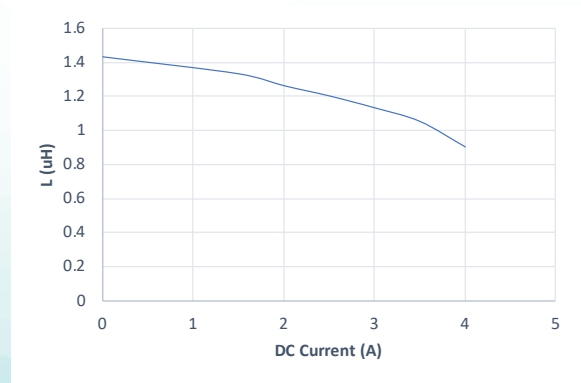
HNT2512MTR68-E



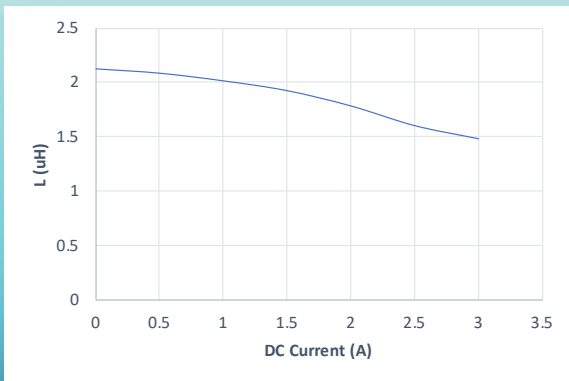
HNT2512MT1R0-E



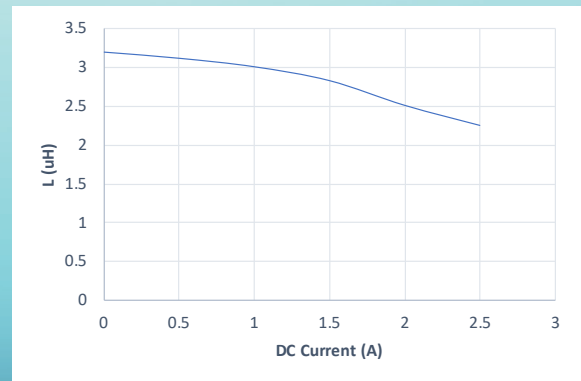
HNT2512MT1R5-E



HNT2512MT2R2-E

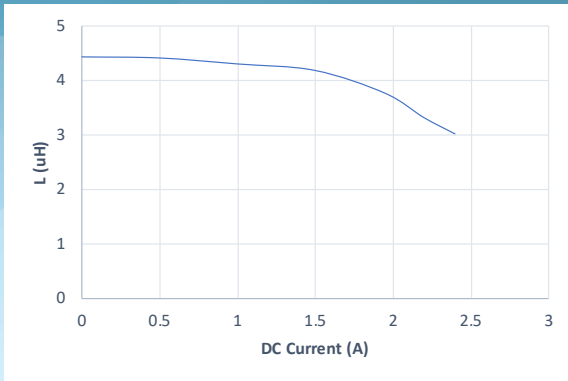


HNT2512MT3R3-E

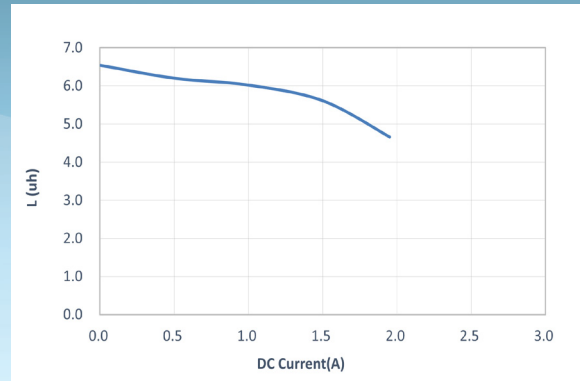




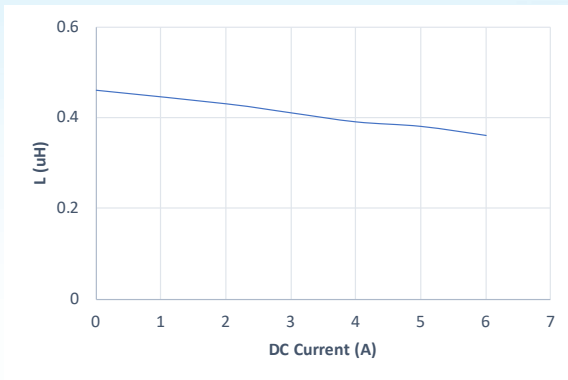
HNT2512MT4R7-E



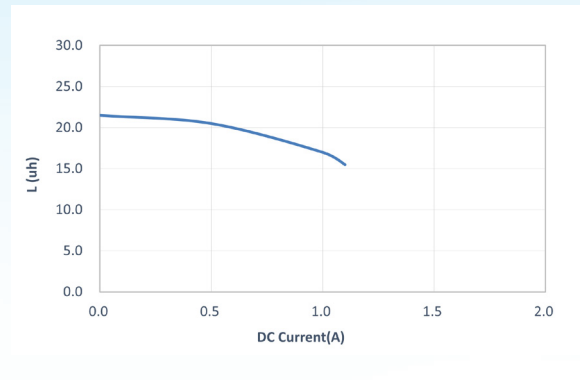
HNT2512MT6R8-E



HNT2512MT100-E



HNT2512MT220-E



### Ordering information

#### HNT - 2512 - M - T - 1R0 - E

(1) (2) (3) (4) (5)

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 2512 is size
- ( 3 ) Tolerance : M=20%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R24 for 0.24uH, 1R0 for 1.0uH, 100 for 10uH...

### Characteristics

- Isat : Based on Inductance decrease 30%
- Irms : Based on Temperature increase 40°C
- Operating temperature range : -40 to +125°C (Including self-temperature rise)
- Storage Temp : -40°C to +85°C

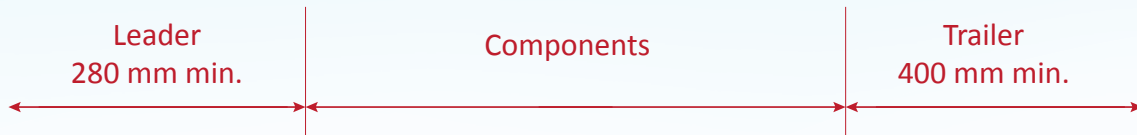
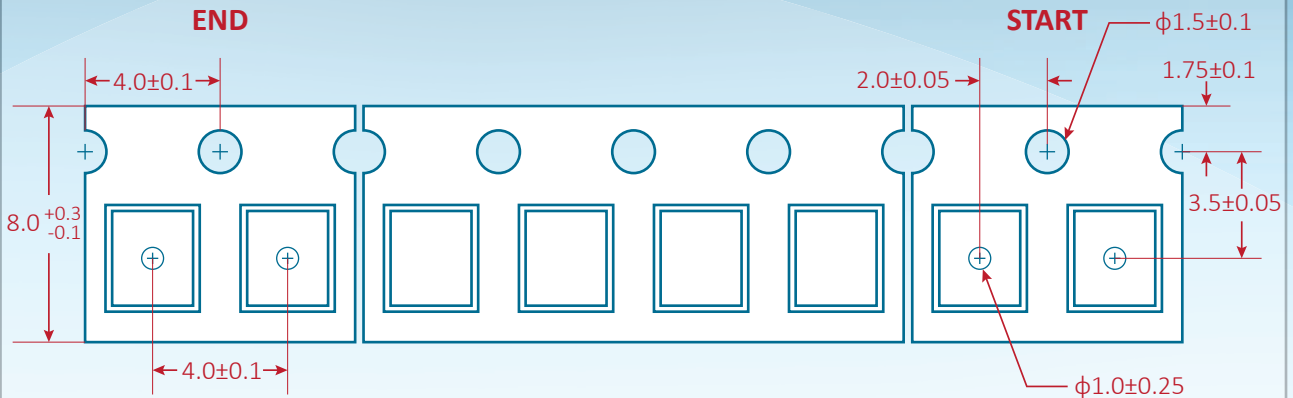
### Test equipment

- Test Frequency : 1MHz/ 0.1V
- L/Q : HP-4286A
- SRF : HP-4291B, HP4287A
- DCR: HP-4286A, CH16502

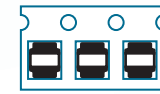
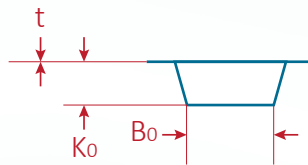
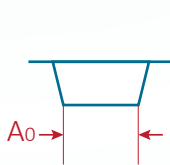
HNT2512-E

# Packing

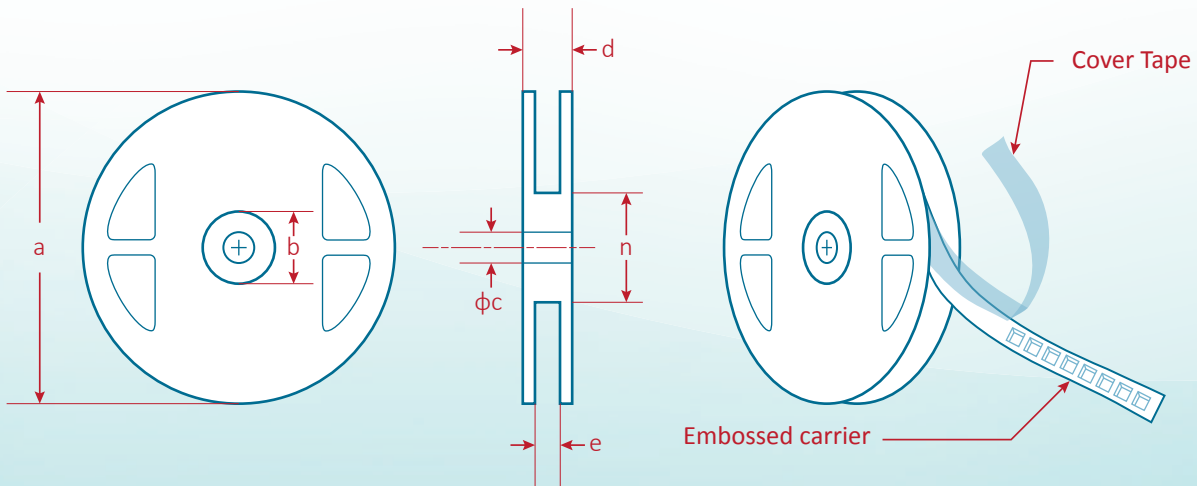
Dimensions in mm



User direction of feed



Bottom View



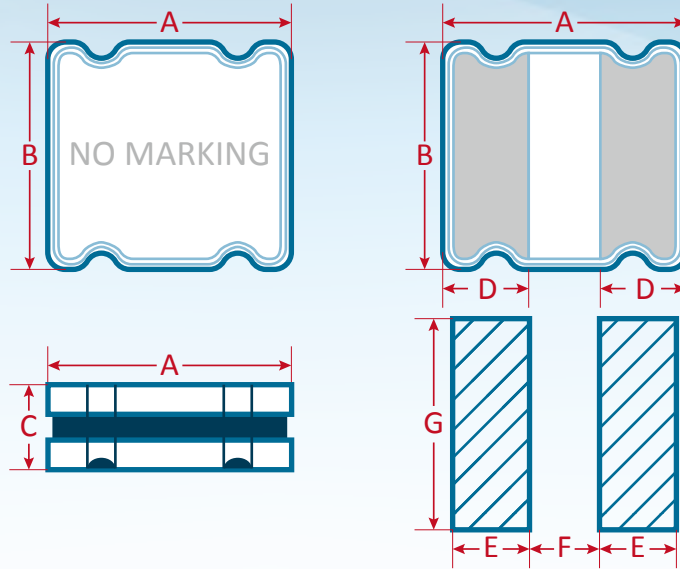
Strength of cover tape (20g~60g)

Item	t	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	a	b	φ <sub>c</sub>	d	e	n
HNT2512-E	0.25 ±0.05	2.35 ±0.1	2.90 ±0.1	1.40 ±0.1	178.0 ±2.0	21.0 ±0.8	13.0 ±0.8	12.5 Max.	8.4 ±1.0	50 Min.
Reel		5 Reel / Box				6 Box / Carton				
Q'ty(Pcs)	Size mm		Q'ty(Pcs)	Size mm		Q'ty(Pcs)	Size mm			
2,000	180φ		10,000	182x182x80		60,000	540x210x205			

# HNT-E Series

SMD Power Inductor

Shape and Dimensions(mm):



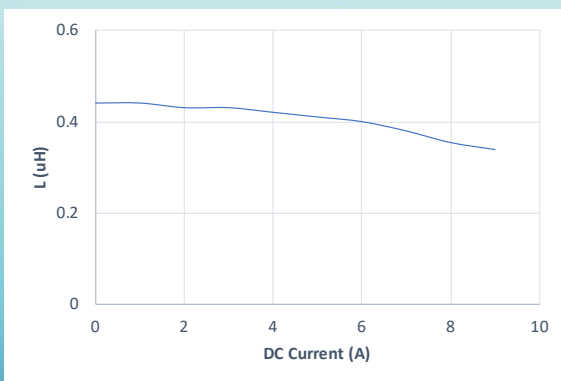
Item	A	B	C	D	E	F	G
HNT3015-E	3.0±0.2	3.0±0.2	1.5 Max.	0.85 Ref.	1.0 Typ.	1.2 Typ.	2.8 Typ.

## HNT3015-E

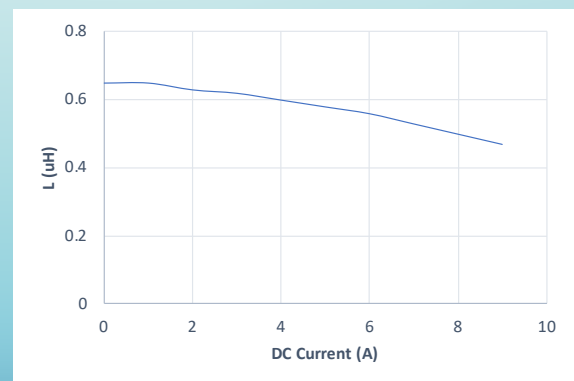


Part No.	Inductance (uH)	DCR(mΩ) Max.	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT3015MTR47-E	0.47	27	9.0	8.0	5.8	5.0	20
HNT3015MTR68-E	0.68	35	9.0	8.0	4.8	4.1	20
HNT3015MT1R0-E	1.0	42	6.3	5.8	4.2	3.8	20
HNT3015MT1R5-E	1.5	46	4.8	4.4	4.0	3.5	20
HNT3015MT2R2-E	2.2	85	4.0	3.6	2.8	2.4	20
HNT3015MT3R3-E	3.3	120	3.6	3.3	2.4	2.1	20
HNT3015MT4R7-E	4.7	150	3.3	3.0	2.1	1.8	20
HNT3015MT6R8-E	6.8	200	2.7	2.5	1.7	1.6	20
HNT3015MT100-E	10	270	2.4	2.2	1.6	1.5	20
HNT3015MT150-E	15	500	2.2	2.0	1.5	1.35	20
HNT3015MT180-E	18	560	2.05	1.85	1.38	1.25	20
HNT3015MT220-E	22	780	1.85	1.65	1.17	1.05	20

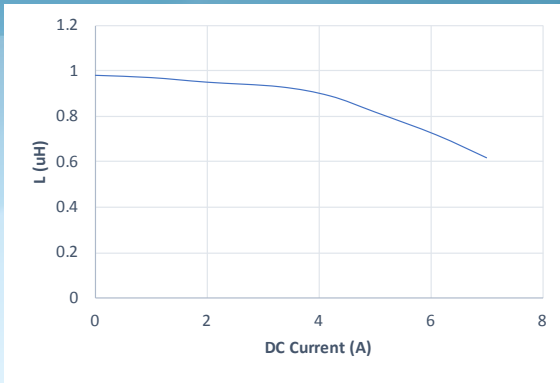
## HNT3015MTR47-E



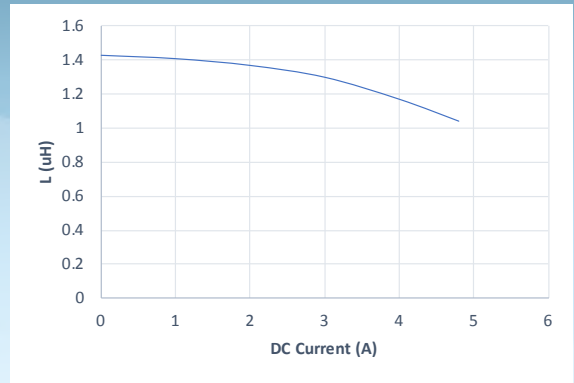
## HNT3015MTR68-E



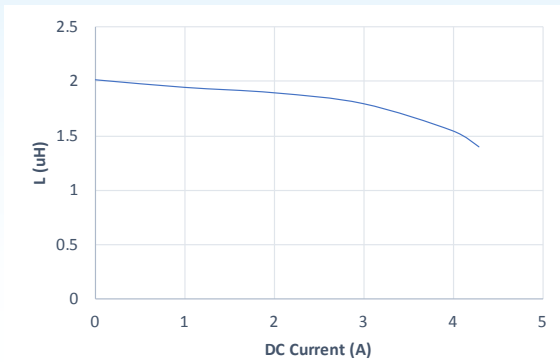
HNT3015MT1R0-E



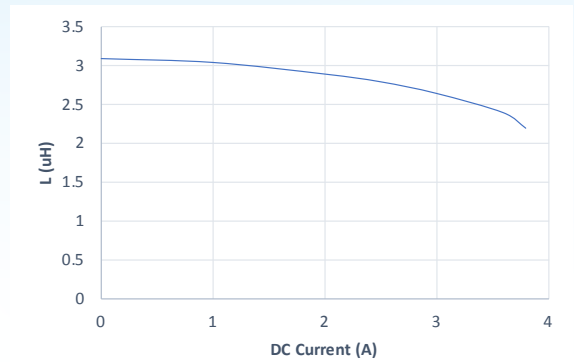
HNT3015MT1R5-E



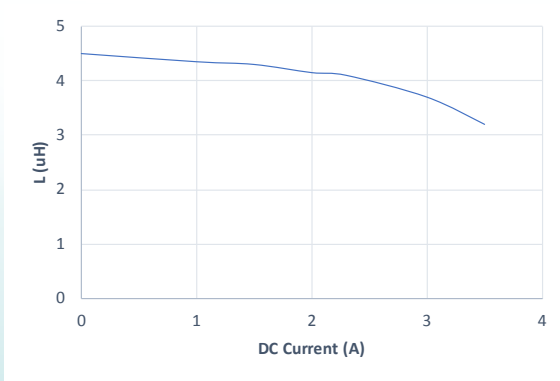
HNT3015MT2R2-E



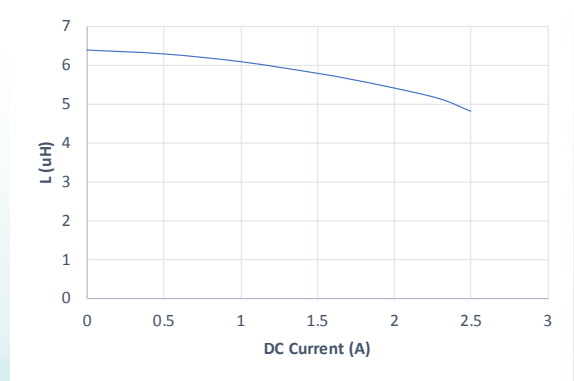
HNT3015MT3R3-E



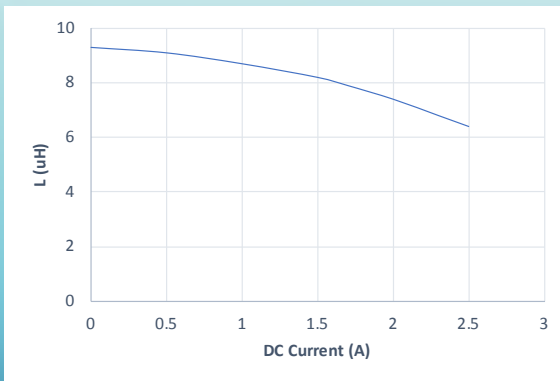
HNT3015MT4R7-E



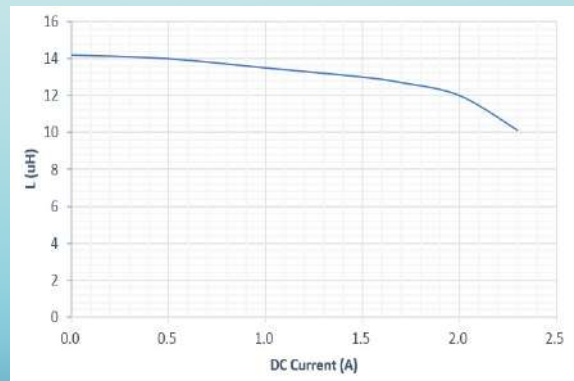
HNT3015MT6R8-E



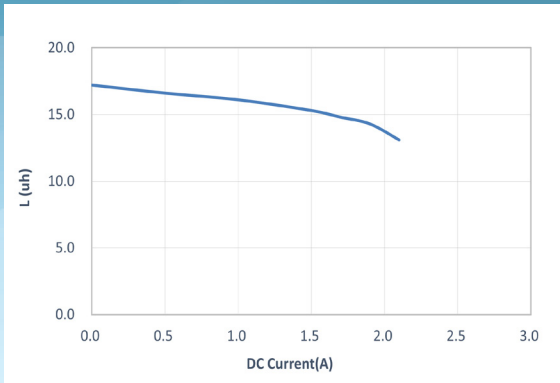
HNT3015MT100-E



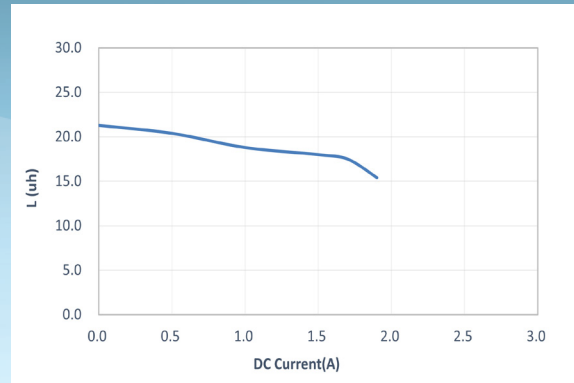
HNT3015MT150-E



HNT3015MT180-E



HNT3015MT220-E



### Ordering information

**HNT - 3015 - M - T - 1R0 - E**

(1) (2) (3) (4) (5)

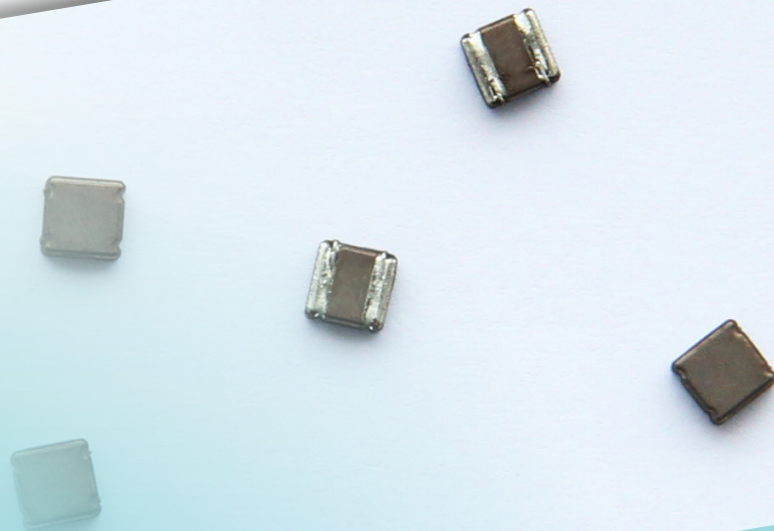
- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 3015 is size
- ( 3 ) Tolerance : M=20%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R47 for 0.47uH, 1R0 for 1.0uH, 100 for 10uH...

### Characteristics

- Isat : Based on Inductance decrease 30%
- Irms : Based on Temperature increase 40°C
- Operating temperature range : -40 to +125°C (Including self-temperature rise)
- Storage Temp : -10°C to +40°C (RH 65% max)

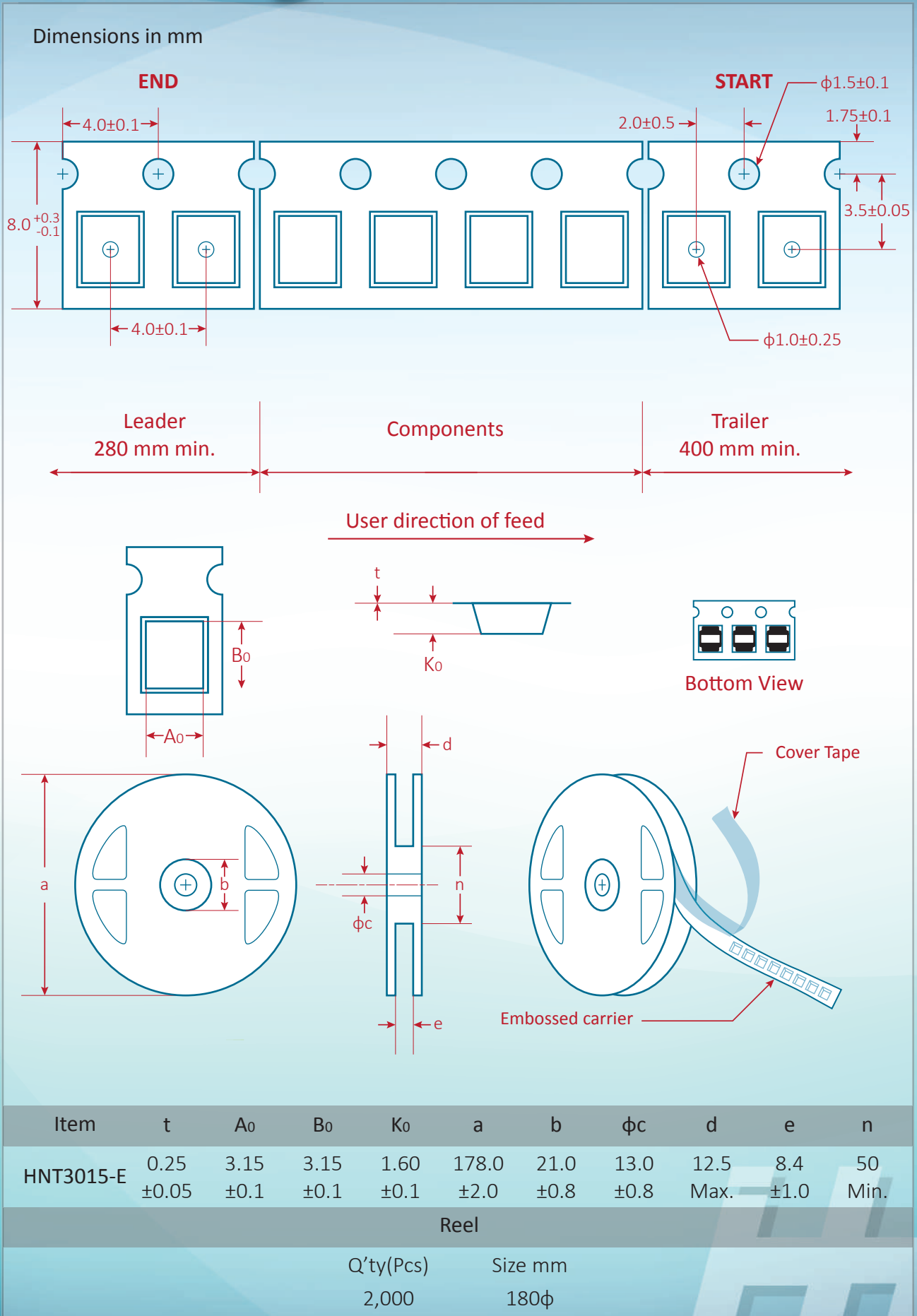
### Test equipment

- Test Frequency : 1MHz/ 1V
- L/Q : HP-4286A
- SRF : HP-4291B, HP4287A
- DCR: HP-4286A, CH16502



HNT3015-E

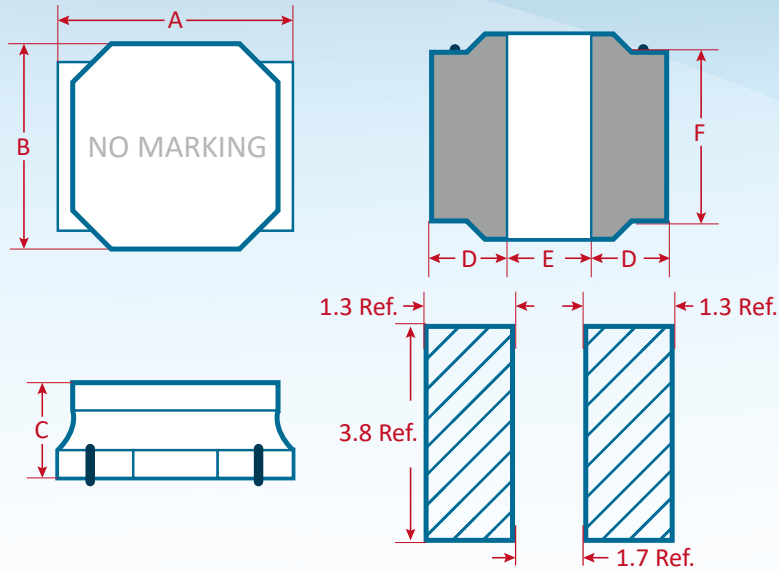
# Packing



# HNT-E Series

## SMD Power Inductor

Shape and Dimensions(mm):

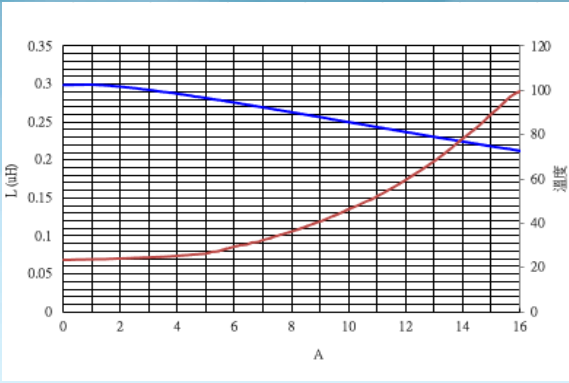


Item	A	B	C	D	E	F
HNT4020-E	4.1±0.2	4.1±0.2	2.1 Max.	1.0 Ref.	2.0 Ref.	3.5 Ref.

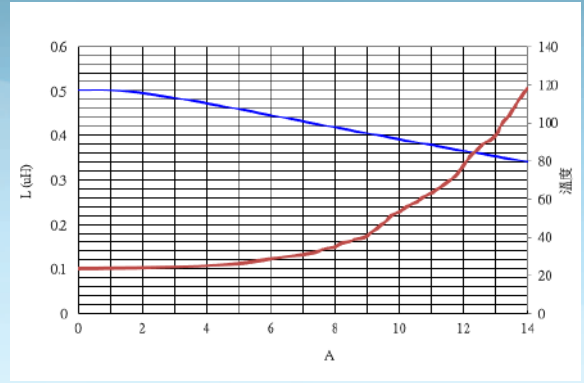
### HNT4020-E

Part No.	Inductance (uH)	DCR(mΩ) Max.	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT4020NTR33-E	0.33	18.2	21.0	16.0	8.1	7.0	30
HNT4020NTR47-E	0.47	23.4	15.0	10.0	8.1	7.0	30
HNT4020NTR68-E	0.68	26	12.0	8.0	6.0	5.2	30
HNT4020NT1R0-E	1.0	28	9.4	7.0	5.1	4.4	30
HNT4020NT1R5-E	1.5	41	9.4	6.8	4.7	4.1	30
HNT4020MT2R2-E	2.2	54	7.5	5.4	4.0	3.5	20
HNT4020MT3R3-E	3.3	75	5.2	3.7	3.3	3.0	20
HNT4020MT4R7-E	4.7	107	5.0	3.5	2.8	2.5	20
HNT4020MT6R8-E	6.8	158	4.0	2.9	2.3	2.0	20
HNT4020MT100-E	10.0	216	3.1	2.2	1.9	1.67	20
HNT4020MT220-E	22.0	460	1.6	1.35	1.4	1.2	20

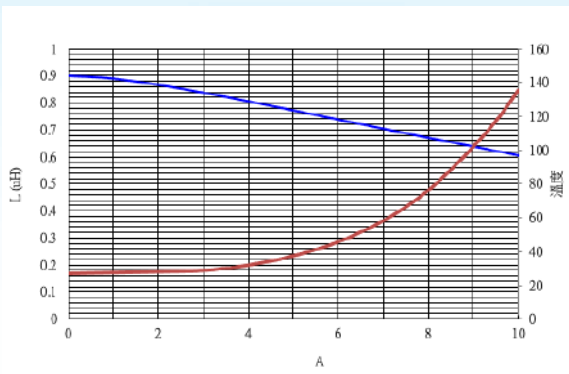
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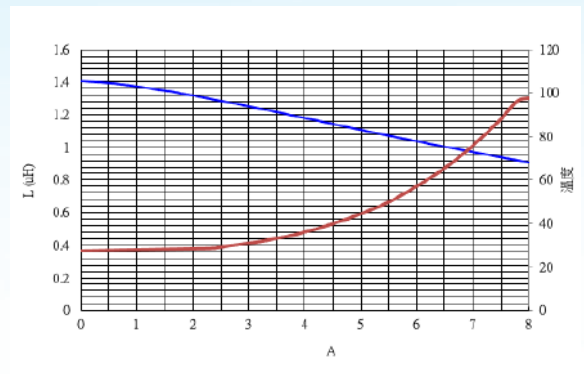
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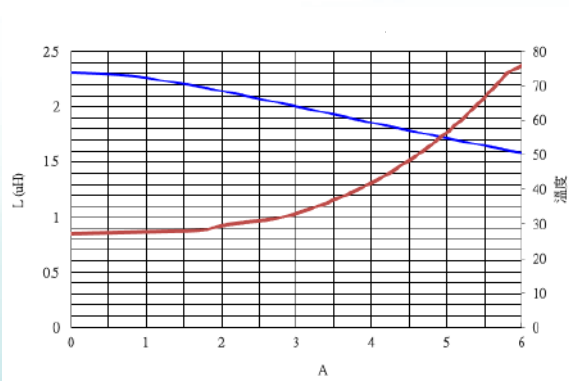
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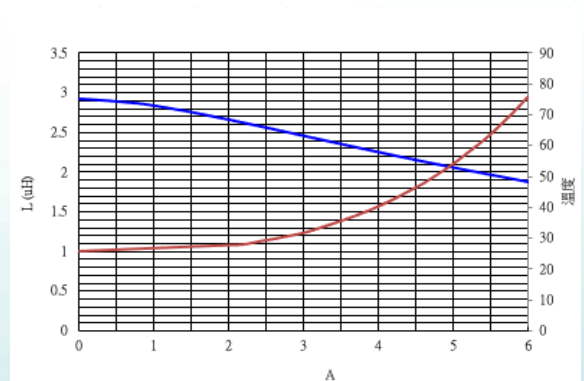
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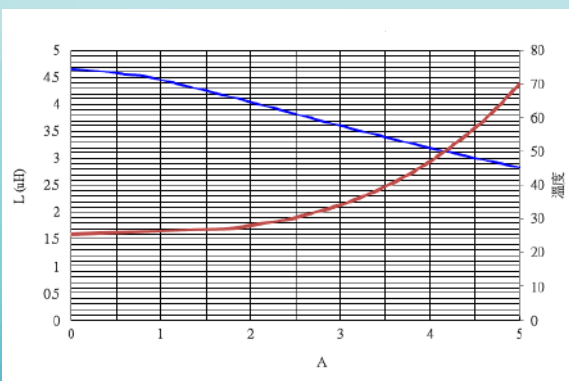
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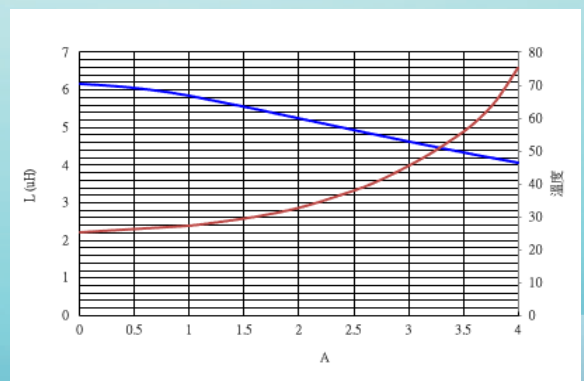
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HNT4020MT4R7-E

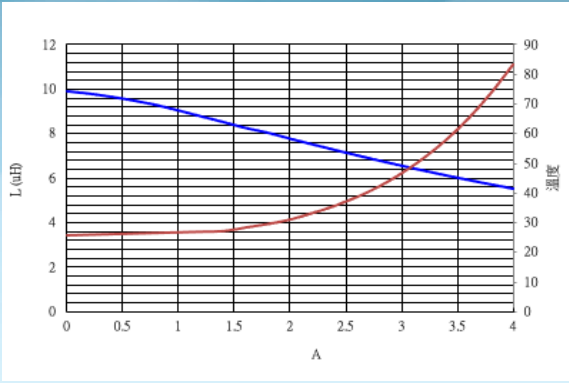


HNT4020MT6R8-E





HNT4020MT100-E



**Ordering information**

HNT- 4020- M- T- 1R0- E

(1) (2) (3) (4) (5)

- ( 1 ) Type : Surface Mountable Type
- ( 2 ) Size : 4020 is size
- ( 3 ) Tolerance : N=30%,M=20%
- ( 4 ) Packaging style : Taping Reel
- ( 5 ) Inductance : R47 for 0.47uH, 1R0 for 1.0uH, 100 for 10uH...

**Characteristics**

- Isat : Based on Inductance decrease 30%
- Irms : Based on Temperature increase 40°C
- Operating temperature range : -40 to +125°C

**Test equipment**

- Test Frequency : 1MHz/ 1.0V
- L : 4285A,CH1062+CH1310
- DCR: 502BC



# Packing

