

## TAME- SMD Type ( Rev. 1.0 )



## Features

- \* High current, low loss of iron powder core
- \* Extremely low DCR; Current handling to >100 Amps
- \* Third mounting pad for greater stability and board adhesion
- \* Custom design available

## Product Identification

TAME      2012      -      330      M  
 1              2                              3                              4

1. Product Code
2. Size Code
3. Inductance: 33uH
4. Tolerance: M= ±20%

TAME series provides exceptionally high current carrying capability and very low DC resistance.

## Applications

- \* DC/DC converters, etc
- \* Power supply for VTRs
- \* LCD televisions, Lighting

## Operating &amp; Storage Condition

- \* Operating Temp Stand Type: -55 to +125°C
- \* Storage Temp Stand Type: -40 to +85°C
- \* Storage Life Time: 12 months @25°C, RH 70%

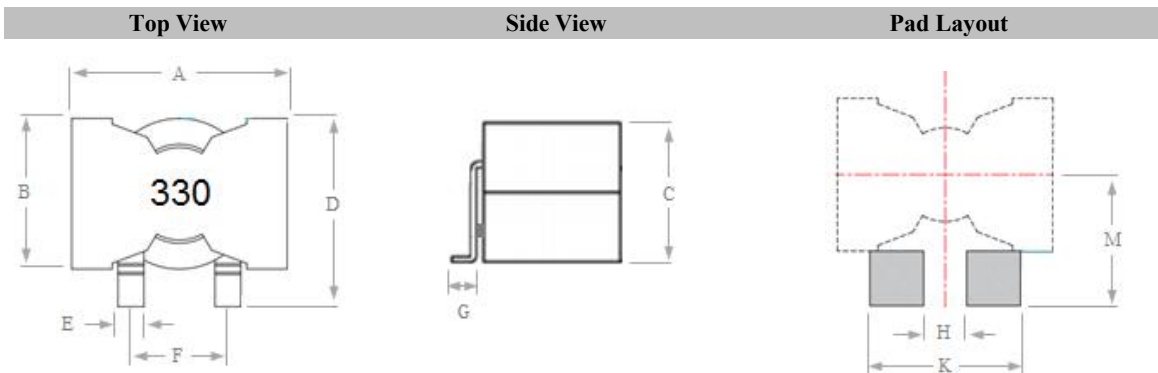
## Test Equipment

- \* HP4284A, HP42841A-L, IDC, Q, RDC
- \* HP8753D NETWORK ANALYZER-SRF

## Standard Atmospheric Conditions

- \* Ambient Temp : 20+/-15°C
- \* Relative Humidity : 65±20%

## Dimension &amp; Recommended Pad Layout: [ mm ]



Size Code	A(max)	B(max)	C(±0.3)	D(max)	E(±0.2)	F(±0.5)	G(±1.0)	H(ref.)	K(ref.)	M(ref.)
2012	20.9	14.5	12.0	20.5	3.5	8.0	3.5	4.0	14.0	12.0
2014	20.9	14.5	14.0	20.5	3.5	8.0	3.5	4.0	14.0	12.0
2016	20.9	14.5	16.0	20.5	3.5	8.0	3.5	4.0	14.0	12.0



## TAME Series ( Rev. 1.0 )

## Electrical Characteristics

Part No.	Inductance ( $\mu$ H)	DCR ( $m\Omega$ ) typ.	DCR ( $m\Omega$ ) max.	I <sub>rms</sub> . (A) typ.	I <sub>sat</sub> . (A) typ.
TAME2012-R47M	0.47	0.45	0.55	45.0	75.0
TAME2012-R82M	0.82	0.45	0.55	45.0	55.0
TAME2012-1R0M	1.00	1.38	1.60	35.0	85.0
TAME2012-1R5M	1.50	1.38	1.60	35.0	60.0
TAME2012-2R2M	2.20	2.11	2.40	28.0	50.0
TAME2012-3R3M	3.30	2.11	2.40	28.0	35.0
TAME2012-4R7M	4.70	2.11	2.40	28.0	24.0
TAME2012-6R8M	6.80	2.11	2.40	28.0	16.0
TAME2012-8R2M	8.20	2.11	2.40	28.0	13.0
TAME2012-100M	10.0	5.87	7.00	16.0	13.0
TAME2012-150M	15.0	5.87	7.00	16.0	10.0
TAME2012-220M	22.0	8.17	9.80	14.0	10.0
TAME2012-330M	33.0	8.17	9.80	14.0	7.0
TAME2014-2R2M	2.20	1.70	2.20	28.0	55.0
TAME2014-2R7M	2.70	1.70	2.20	28.0	48.0
TAME2014-3R3M	3.30	3.28	3.80	24.0	48.0
TAME2014-4R7M	4.70	3.28	3.80	24.0	35.0
TAME2014-5R6M	5.60	3.28	3.80	24.0	30.0
TAME2014-6R8M	6.80	6.60	7.30	18.0	34.0
TAME2014-8R2M	8.20	6.60	7.30	18.0	29.0
TAME2014-100M	10.00	6.60	7.30	18.0	23.0
TAME2014-150M	15.00	8.60	9.50	16.0	18.0
TAME2014-220M	22.00	8.60	9.50	16.0	13.0
TAME2014-330M	33.00	8.60	9.50	16.0	9.0
TAME2016-4R7M	4.70	3.30	4.00	21.0	42.0
TAME2016-6R8M	6.80	3.57	4.30	20.0	25.0
TAME2016-8R2M	8.20	3.57	4.30	20.0	25.0
TAME2016-100M	10.0	5.28	6.30	16.0	24.0
TAME2016-220M	22.0	5.28	6.30	16.0	10.0
TAME2016-330M	33.0	13.0	15.0	12.0	9.0
TAME2016-470M	47.0	13.0	15.0	12.0	6.5

\* Test Condition: @100KHz/ 0.1V, 25°C Ambient

\* I<sub>sat</sub>: DC current that will cause L to drop approximately 20%.

\* I<sub>rms</sub>: DC current that will cause an approximate  $\Delta T$  of 40°C.

\* The part temperature (ambient + temp rise) should not exceed -30~105°C under worst case operating conditions.

\* Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all effect the part temperature.

Part temperature should be verified in the end application.



**TAME- Dip Type ( Rev. 1.0 )**



**Features**

- \* High current, low loss of iron powder core
- \* Extremely low DCR; Current handling to >100 Amps
- \* Custom design available

**Product Identification**

TAME      2612      -      100      K  
 1                      2                      3                      4

1. Product Code
2. Size Code
3. Inductance: 10uH
4. Tolerance: K= ±10%

**Applications**

- \* DC/DC converters, etc
- \* Power supply for VTRs
- \* LCD televisions, Lighting

**Operating & Storage Condition**

- \* Operating Temp Stand Type: -55 to +125°C
- \* Storage Temp Stand Type: -40 to +85°C
- \* Storage Life Time: 12 months @25°C, RH 70%

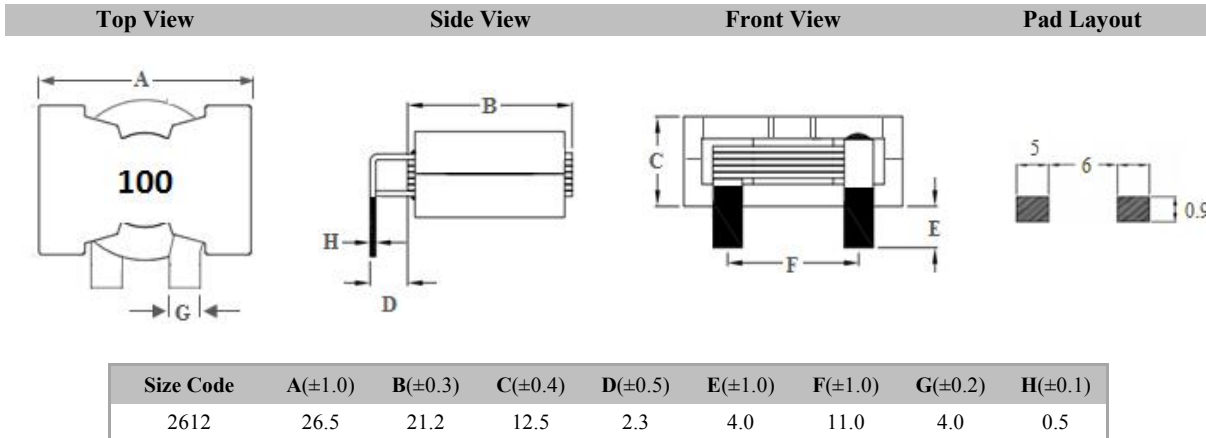
**Test Equipment**

- \* HP4284A,HP42841A-L,IDC,Q,RDC
- \* HP8753D NETWORK ANALYZER-SRF

**Standard Atmospheric Conditions**

- \* Ambient Temp : 20+/-15°C
- \* Relative Humidity : 65±20%

**Dimension & Recommended PAD Layout: [ mm ]**



**Electrical Characteristics**

P/N	L (uH)	Tolerance (±%)	DCR (mΩ) max.	Isat. (A) typ.	Irms. (A) typ.
TAME2612-100K	10.0	10	3.2	29.5	25.0

- \* Test Condition : 100KHz/ 0.1V, 25°C Ambient
- \* Isat: DC current that will cause L to drop approximately 30%.
- \* Irms: DC current that will cause an approximate ΔT of 40°C.



深圳市长进科技有限公司 SHENZHEN CHANGJIN TECHNOLOGY CO., LTD.

Specifications subject to change without any prior notice due to reasons such as upgrading.

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