

# SPECIFICATION FOR APPROVAL

**CUSTOMER:**

**CUSTOMER' S PART NO. :**

**DESCRIPTION:**

**QUANTITY:**

**PART NO.:** TSDR5828-8R2N

**DATE:** 2016.06.30

**REMARK:**

CUSTOMER SIGNATURE

APPROVED BY	DRAWN BY
Tywin Yin	Candice Yang/Hannah Zhou

*Samples meet RoHS and  
Lead-free requirement*

**koher**

KOHER ( Shanghai ) Electronic Co.,Ltd



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<b>DESCRIPTION</b>		<b>DATE</b>	2016.06.30
<b>HISTORY:</b>			
Revision Date	Revision Descriptions	Approved	Revision
2016.06.30	New release	Tywin Yin	1.0

*KOHER (Shanghai) Electronic Co.,Ltd*



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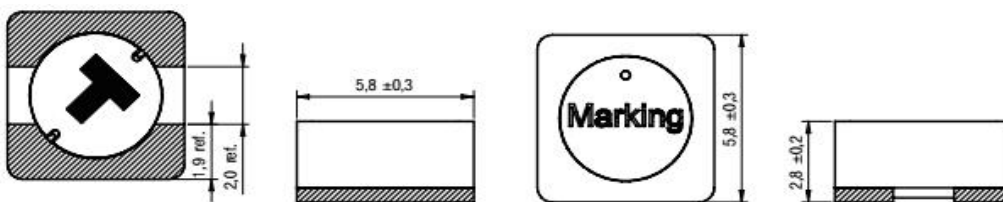
## 1. Features

- Extremely flat power inductor
- High current capability
- Magnetically shielded which results in a low leakage field
- Recommended solder profile: Reflow
- Operating temperature: -40 °C to +125 °C

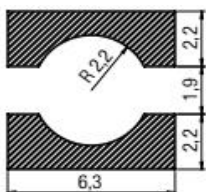
## 2. Applications

- Portable power like PDA, digital camera, PCMCIA cards and displays
- DC/DC converter
- Embedded PC
- Mobile data gathering, telemetric

## 3. Dimensions(in mm)



## Land Pattern(in mm)





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## 4. Specification

Part Number	L ( $\mu$ H)	Tolerance (%)	$I_R$ (A)	$I_{sat}$ (A)	$R_{DC\ typ.}$ (m $\Omega$ )	$R_{DC\ max.}$ (m $\Omega$ )	Core Material
TSDR5828-8R2N	8.2	$\pm 30$	2.1	1.6	40	55	NiZn

Note:

$I_R$  referring to 30 K self-heating above ambient temperature.

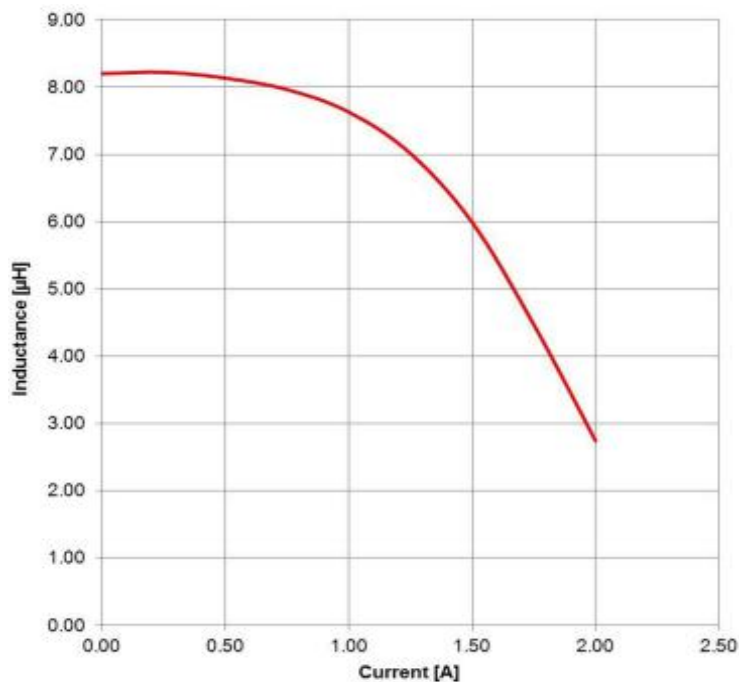
$I_{sat}$  referring to inductance loss of 35% typ.

It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

- Ambient temperature: -40°C to +95°C (referring to  $I_R$ )
- Operating temperature: -40°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Test conditions of Electrical Properties: 20°C, 33% RH, if not specified differently

## 5. Typical Performance Curves

TSDR5828-8R2N



## 6. Standard Packaging Quantity

400pcs/Reel

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