

SPECIFICATION FOR APPROVAL

CUSTOMER:

CUSTOMER' S PART NO. :

DESCRIPTION:

QUANTITY:

PART NO.: **TSDR5818-1R8N**

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



SPECIFICATION FOR APPROVAL

CUSTOMER		PART NO.	TSDR5818-1R8N
Cus.'s PART NO.		PAGE NO.	1 of 3
DESCRIPTION		DATE	2016.06.30
HISTORY:			
Revision Date	Revision Descriptions	Approved	Revision
2016.06.30	New release	Tywin Yin	1.0

KOHER (Shanghai) Electronic Co.,Ltd



SPECIFICATION FOR APPROVAL

CUSTOMER		PART NO.	TSDR5818-1R8N
Cus.'s PART NO.		PAGE NO	2 of 3
DESCRIPTION		DATE	2016.06.30

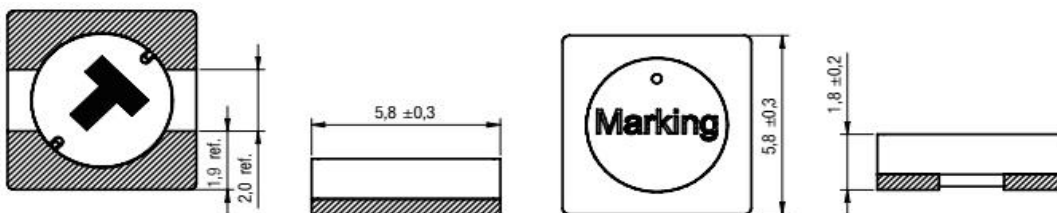
1. Features

- Extremely flat power inductor
- High current capability
- Magnetically shielded which results in a low leakage field
- Recommended solder profile: Reflow
- Operating temperature: $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$

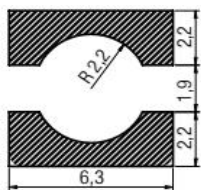
2. Applications

- 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)





SPECIFICATION FOR APPROVAL

CUSTOMER		PART NO.	TSDR5818-1R8N
Cus.'s PART NO.		PAGE NO	3 of 3
DESCRIPTION		DATE	2016.06.30

4. Specification

Part Number	L (μ H)	Tolerance (%)	I_R (A)	I_{sat} (A)	R_{DC} typ. (m Ω)	R_{DC} max. (m Ω)	Core Material
TSDR5818-1R8N	1.8	± 30	2.60	3.00	24	35	NiZn

Note:

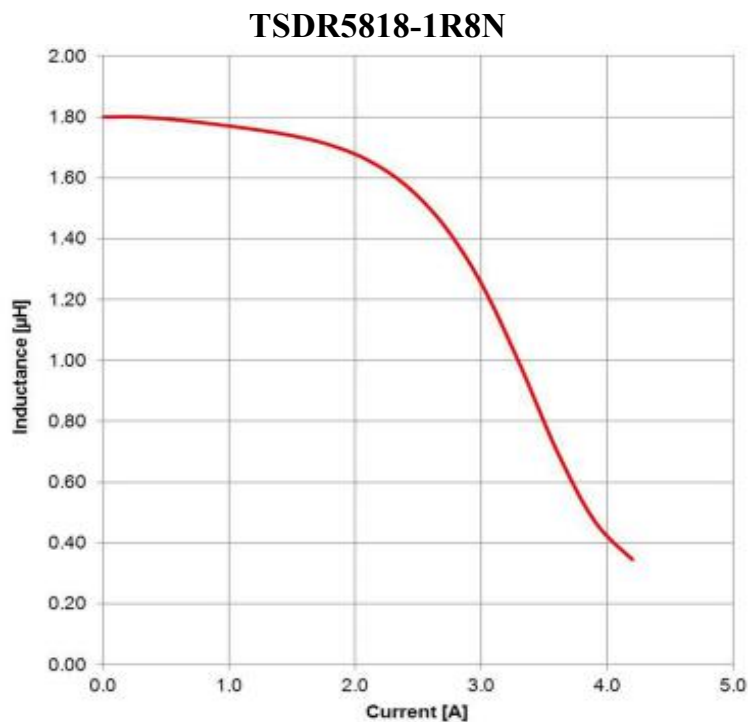
I_R referring to 30 K self-heating above ambient temperature.

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



6. Standard Packaging Quantity

500pcs/Reel

KOHER (Shanghai) Electronic Co.,Ltd