

深圳市方磁電子有限公司
SHENZHEN FOUNDS ELECTRONICS CO., LTD

【物料承認書】

APPROVAL SHEET

客戶 (Customer) : _____

產品名稱 (Description) : **Molding Power Inductor**

客戶料號 (Cus P/N) : _____

料號 (Part NO) : **PSM0630B Series**

日期 (Date) : **2018/08/03**

版本 (Version) : **A1.0**

核准 APPROVED BY	審核 CHECKED BY	製作 DRAWN BY
TopoCheng	VincentShang	AbbyShi

Please sign back after confirmation:

Client signature: Qualified Unqualified

批准 APPROVAL	審核 CHECKED	檢驗 CONFORM

地址 (Address) : 深圳市寶安區新安街道裕安二路

13號C33科創園2棟209室

電話 (TEL) : 0755-83222650

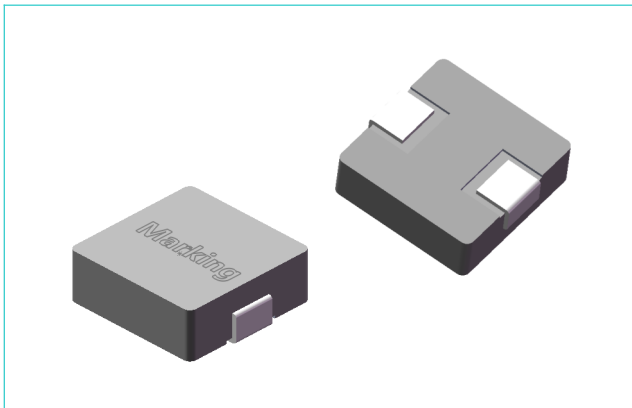
傳真 (FAX) : 0755-83222656

<http://www.ele-founds.com>



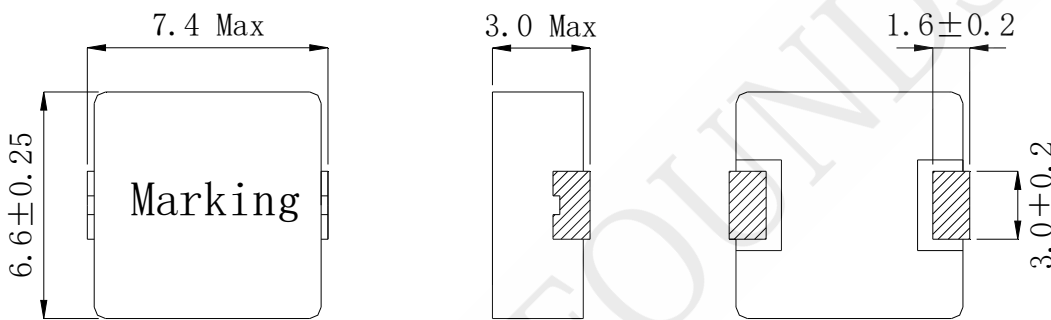
Molding Inductor

PSM0630B Series

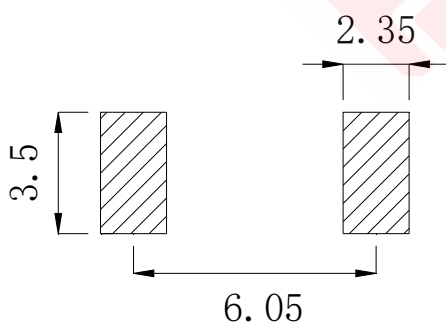


- ◆ The use of magnetic iron powder ensure capability for large current
- ◆ Low loss, high efficiency, wide application frequency
- ◆ The DC impedance of the same size is the lowest
- ◆ Magnetically shielded, low audible core noise
- ◆ Lightweight design, save space, suitable for high density SMT
- ◆ Operating temperature: $-40\sim+125^{\circ}\text{C}$

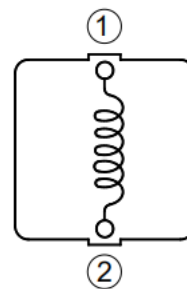
I. Appearance and dimensions (mm)



II. Recommended land pattern (mm)



III. Schematic



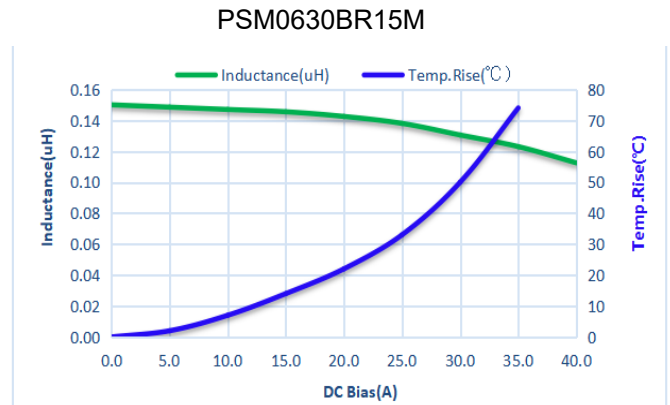
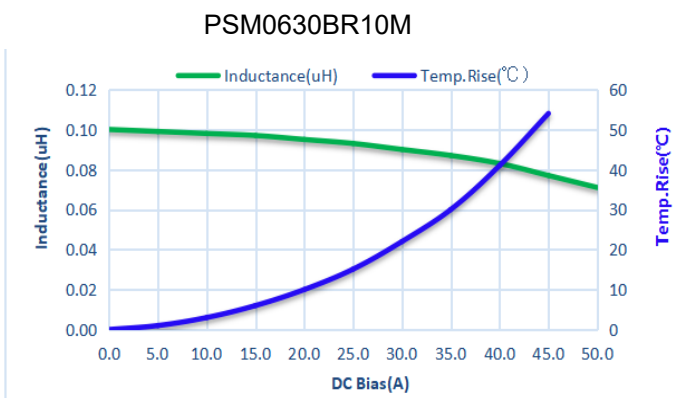
Molding Inductor PSM0630B Series

四. Electrical characteristics

Part No.	Inductance (μH) $\pm 20\%$	DCR ($\text{m}\Omega$) Max	Isat (A) Max	Irms (A) Max.
PSM0630BR10M	0.10	0.99	48.0	35.0
PSM0630BR15M	0.15	2.4	35.0	25.0
PSM0630BR22M	0.22	3.0	32.0	21.0
PSM0630BR47M	0.47	4.1	17.8	16.0
PSM0630BR68M	0.68	5.2	17.0	15.5
PSM0630BR82M	0.82	6.0	14.0	13.0
PSM0630B1R0M	1.0	7.25	13.5	11.2
PSM0630B1R5M	1.5	10.5	12.0	9.5
PSM0630B2R2M	2.2	15.0	10.5	8.0
PSM0630B3R3M	3.3	22.0	8.5	6.2
PSM0630B4R7M	4.7	33.0	5.5	5.5
PSM0630B6R8M	6.8	48.0	5.0	4.2
PSM0630B100M	10	68.0	4.9	3.5
PSM0630B150M	15	150.0	3.3	2.4
PSM0630B220M	22	200.0	2.5	2.0
PSM0630B330M	33	284.0	2.0	1.8

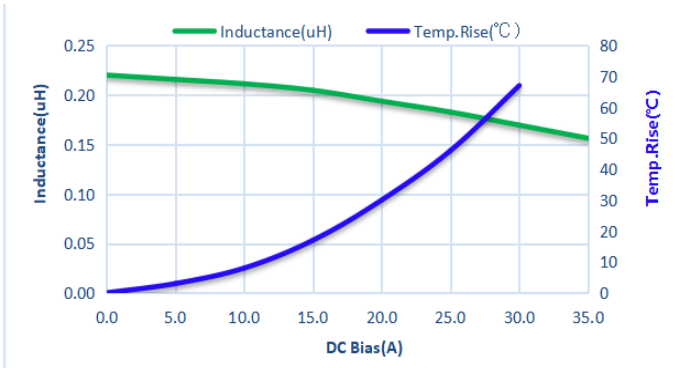
1. All test data is referenced to 25°C ambient
2. Inductance measure condition at 100kHz, 1V.
3. Isat: the actual value of DC current when the inductance decrease 30% of its initial value.
4. Irms: Temperature rise current the actual value of DC current when the temperature rise is ΔT_{40} ($T_a=25$).

五. Typical Performance Curves

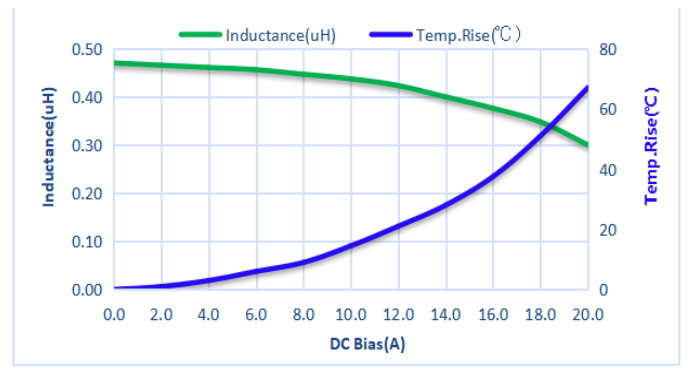


Molding Inductor PSM0630B Series

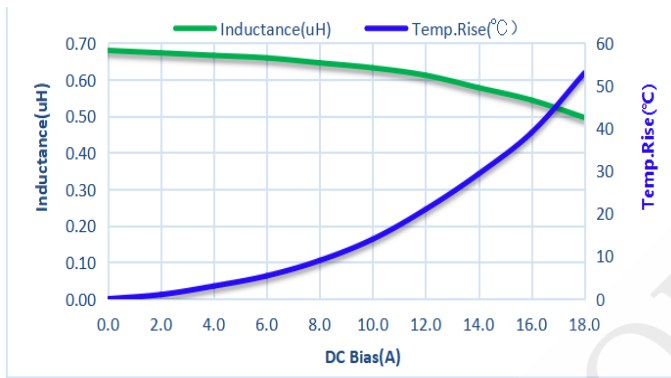
PSM0630BR22M



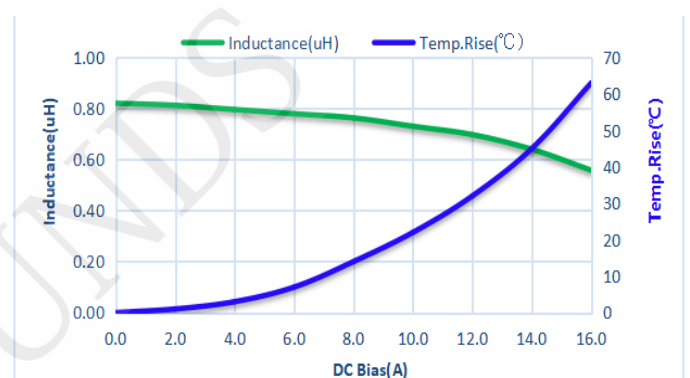
PSM0630BR47M



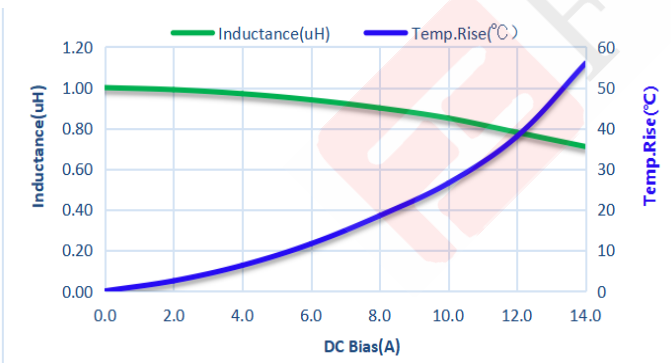
PSM0630BR68M



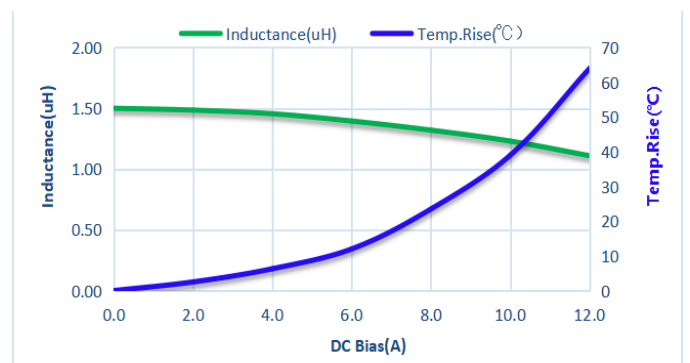
PSM0630BR82M



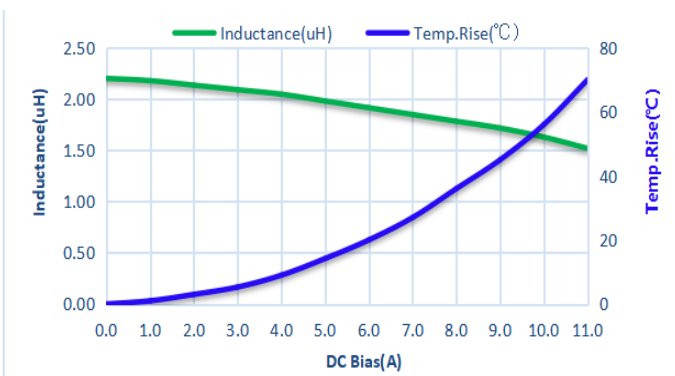
PSM0630B1R0M



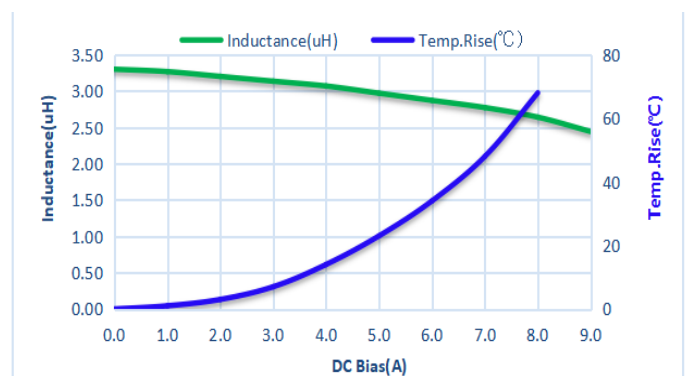
PSM0630B1R5M



PSM0630B2R2M

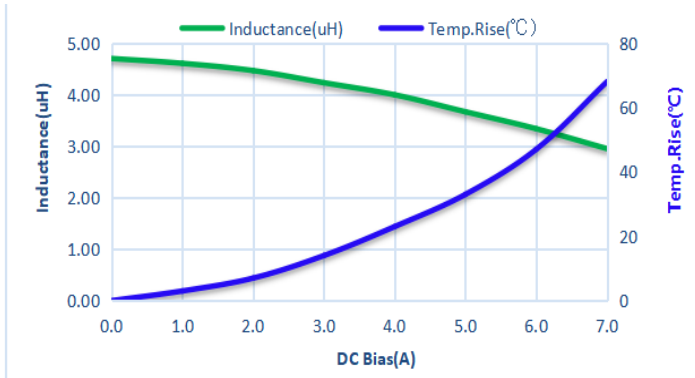


PSM0630B3R3M

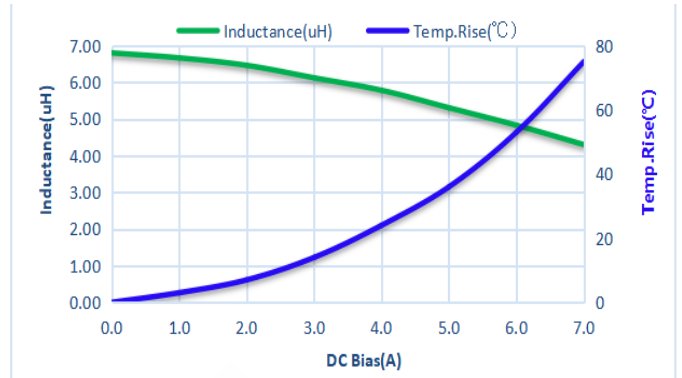


Molding Inductor PSM0630B Series

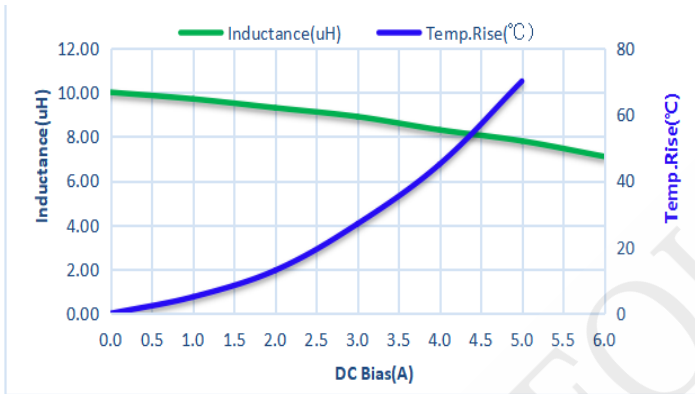
PSM0630B4R7M



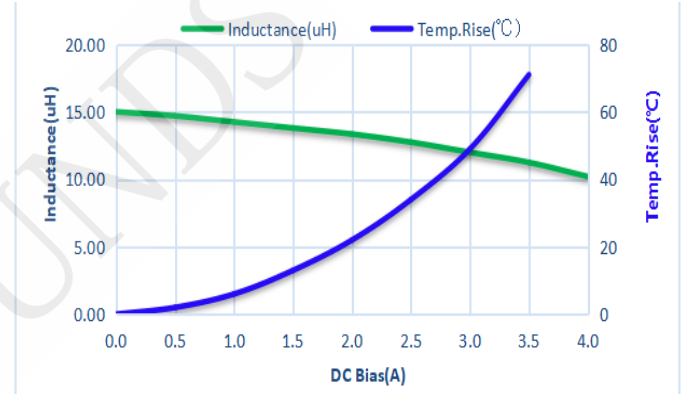
PSM0630B6R8M



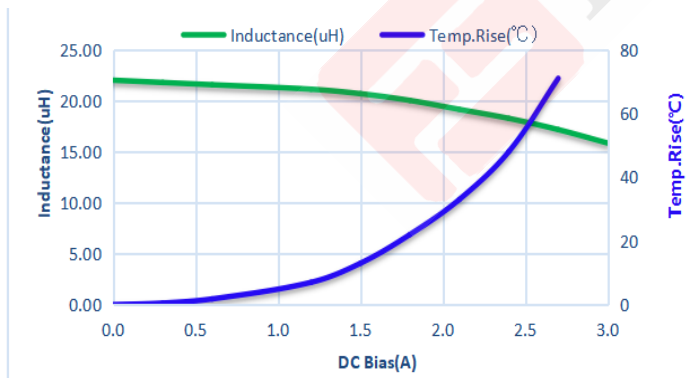
PSM0630B100M



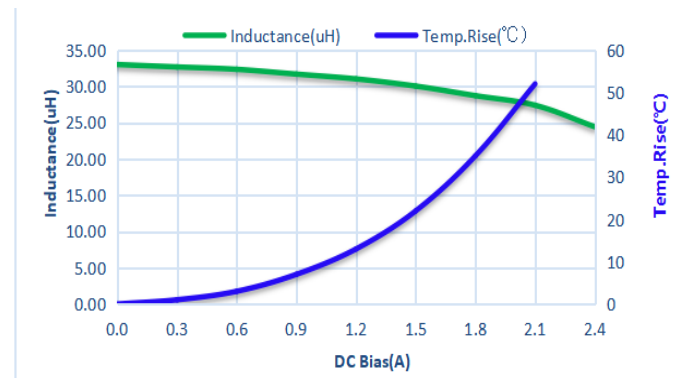
PSM0630B150M



PSM0630B220M

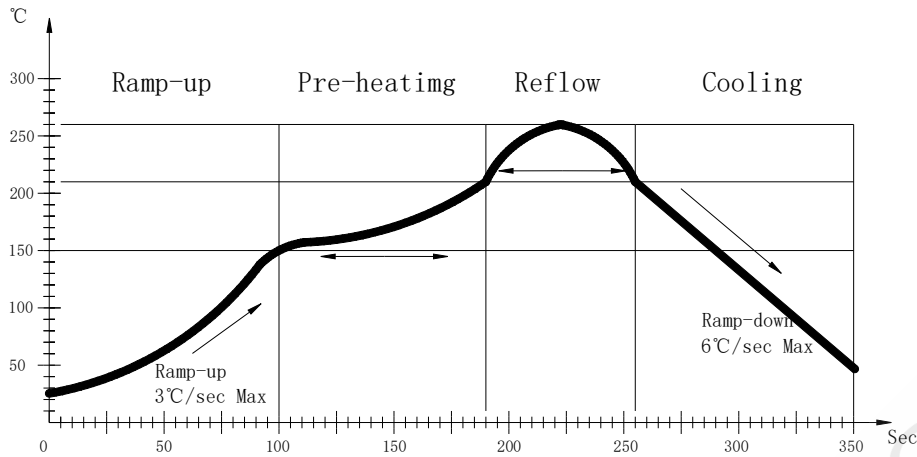


PSM0630B330M



Molding Inductor PSM0630B Series

六. Recommended soldering conditions



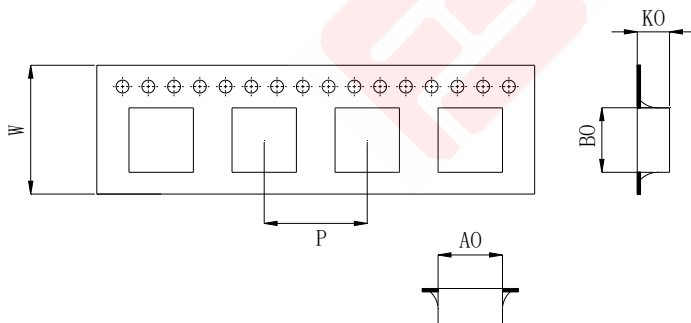
Lead-Free Standard temperature range analysis

Refer to J-STD-020C

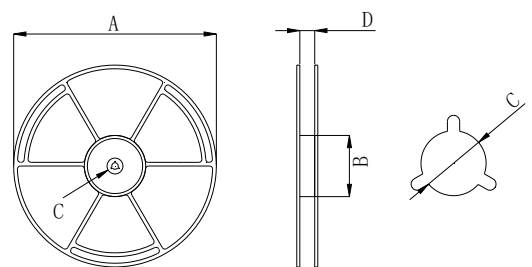
Item	Ramp-up	Pre-heating	Reflow	Peak Temp
Temp.scope	R.T~150°C	150°C~200°C	217°C	260±5°C
Time spec	-	60~80sec	60~150sec	20~40sec
Time result	-	75~100sec	90~120sec	20~35sec

七. Packaging Specifications

Tape Dimensions



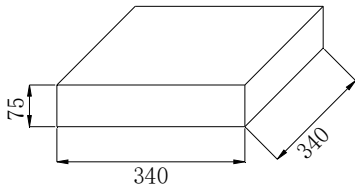
Reel Dimensions



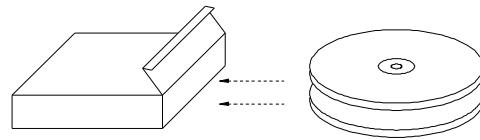
Founds Part No.	Tape Dimensions (mm)					Reel Dimensions (mm)				Quantity PCS/REEL
	A0	B0	K0	P	W	A	B	C	D	
PSM0630B Series	6.9	7.6	3.4	12	16	330	100	13	16.5	1000

Molding Inductor PSM0630B Series

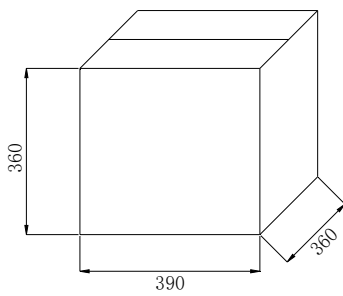
Inner box



2 Reel/Inner box ,Total 2000pcs/Inner box



Outer box



5 Inner box/Outer box ,Total 10000pcs/Outer box

