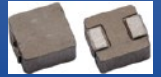


Molding Type Power Inductor



ASPI-0630LR

Request Samples



Check Inventory



7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- High saturation current
- Low loss due to low DC resistance
- Frequency application up to 3MHz
- Low profile with max thickness 3.0mm

Applications

- DC/DC converters in Notebook, desktops and servers
- Low profile, high current power supplies

Electrical Specifications

| Part Number | Inductance | Tolerance | DCR Max | Saturation Current Typ. | Temperature Rise Current Typ. |
|-----------------|------------|-----------|------------|-------------------------|-------------------------------|
| Units | μ H | % | m Ω | A | A |
| Symbol | L | M | | Isat | Irms |
| ASPI-0630LR-R22 | 0.22 | M | 3.0 | 34.0 | 24.0 |
| ASPI-0630LR-R33 | 0.33 | M | 3.5 | 23.0 | 21.0 |
| ASPI-0630LR-R47 | 0.47 | M | 4.1 | 20.0 | 18.0 |
| ASPI-0630LR-R56 | 0.56 | M | 5.0 | 18.0 | 16.0 |
| ASPI-0630LR-R68 | 0.68 | M | 6.5 | 17.0 | 16.0 |
| ASPI-0630LR-R82 | 0.82 | M | 7.5 | 16.0 | 14.0 |
| ASPI-0630LR-1R0 | 1.0 | M | 9.0 | 15.0 | 12.0 |
| ASPI-0630LR-1R5 | 1.5 | M | 12.1 | 12.0 | 10.0 |
| ASPI-0630LR-2R2 | 2.2 | M | 18.5 | 10.0 | 8.0 |
| ASPI-0630LR-3R3 | 3.3 | M | 28.0 | 9.5 | 6.5 |
| ASPI-0630LR-4R7 | 4.7 | M | 35.0 | 6.5 | 5.5 |
| ASPI-0630LR-5R6 | 5.6 | M | 42.0 | 5.0 | 5.0 |
| ASPI-0630LR-6R8 | 6.8 | M | 60.0 | 6.0 | 4.5 |
| ASPI-0630LR-8R2 | 8.2 | M | 60.0 | 5.5 | 5.0 |
| ASPI-0630LR-100 | 10.0 | M | 68.0 | 5.5 | 4.0 |
| ASPI-0630LR-150 | 15.0 | M | 120.0 | 4.0 | 3.0 |
| ASPI-0630LR-220 | 22.0 | M | 170.0 | 2.5 | 2.5 |
| ASPI-0630LR-330 | 33.0 | M | 270.0 | 2.5 | 2.0 |
| ASPI-0630LR-470 | 47.0 | M | 385.0 | 2.0 | 1.5 |

Test Conditions

Inductance is measured using Wayne Kerr3260+3265B at 100KHz, 1V.

RDC is measured using HIOKI3540.

Isat: Based on inductance change ($\Delta L/L_0 : \leq -30\%$)

Irms: Based on temperature rise ($\Delta T : 40^\circ\text{C TYP.}$)

Operating Temperature: -55°C to $+125^\circ\text{C}$ (Including self-generated heat)

Storage Temperature and Humidity: $< 35^\circ\text{C}$, 35% to 65% RH

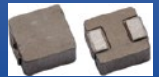


5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISION: B 03-02-22

ABRACON IS
ISO9001-2015
CERTIFIED

Molding Type Power Inductor



ASPI-0630LR

Request Samples



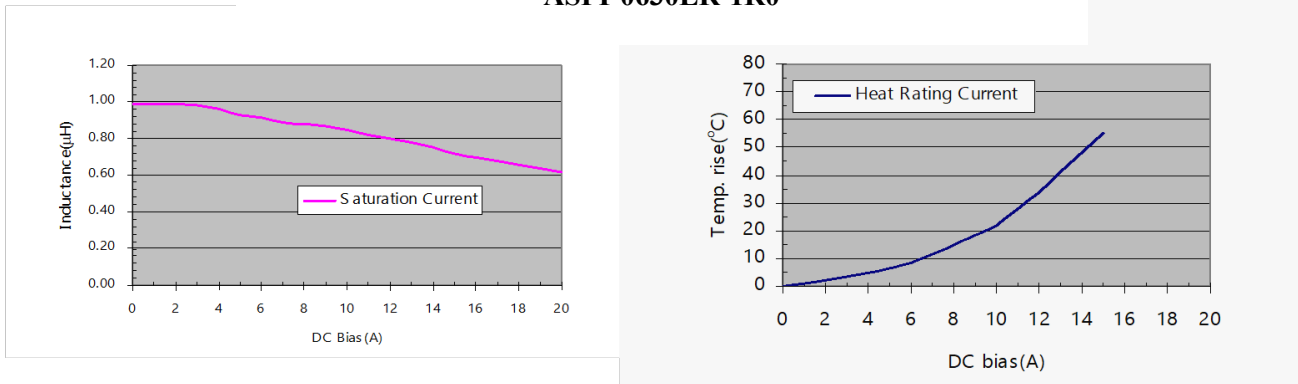
Check Inventory



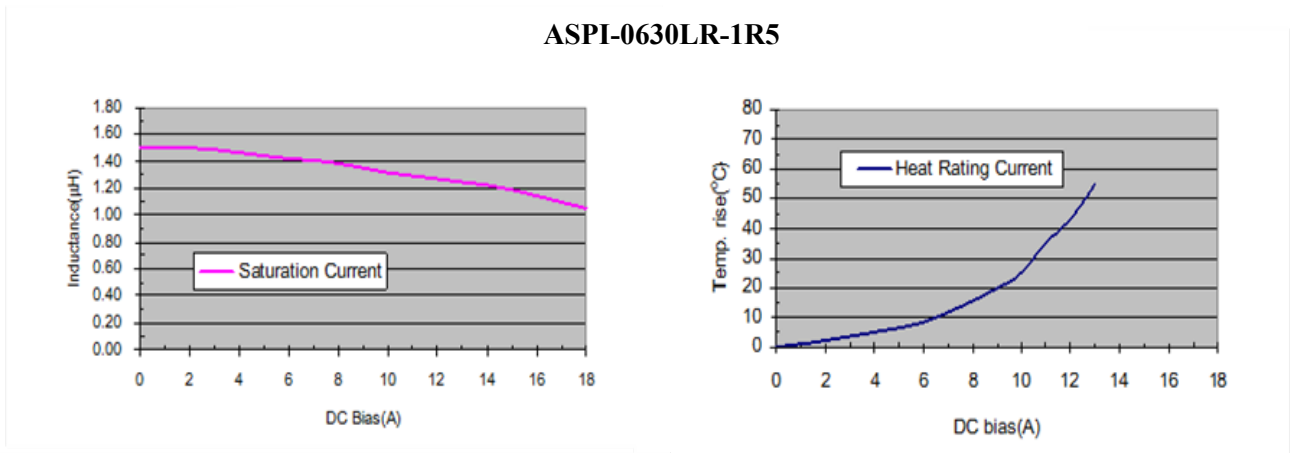
7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Electrical Characteristic Curves

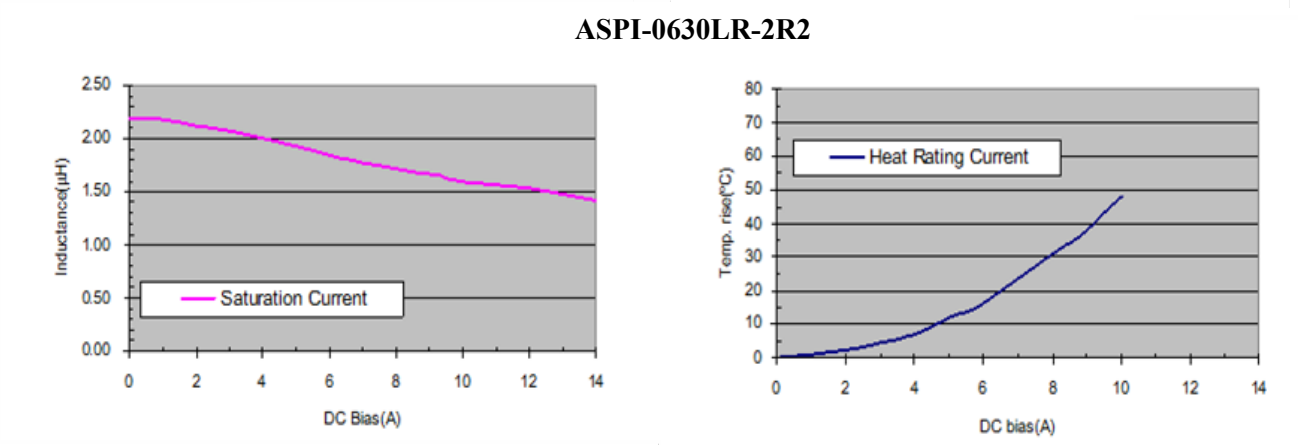
ASPI-0630LR-1R0



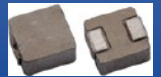
ASPI-0630LR-1R5



ASPI-0630LR-2R2



Molding Type Power Inductor



ASPI-0630LR

Request Samples

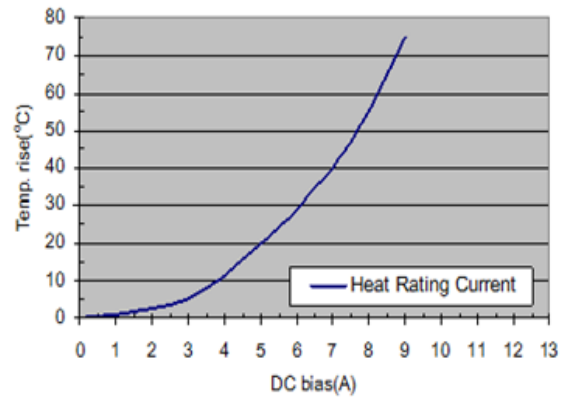
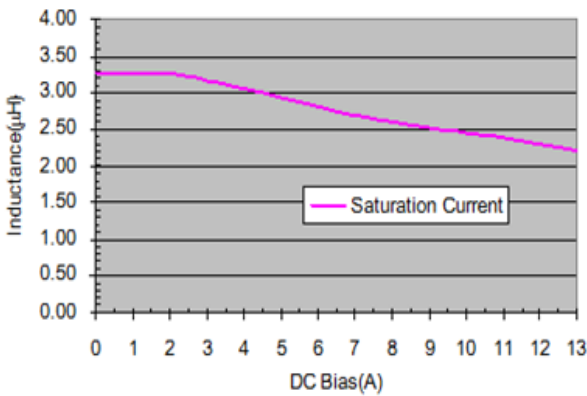


Check Inventory

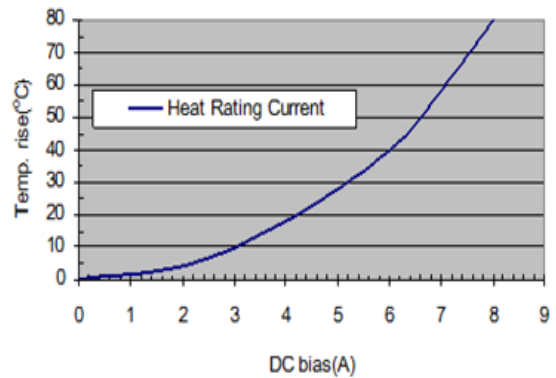
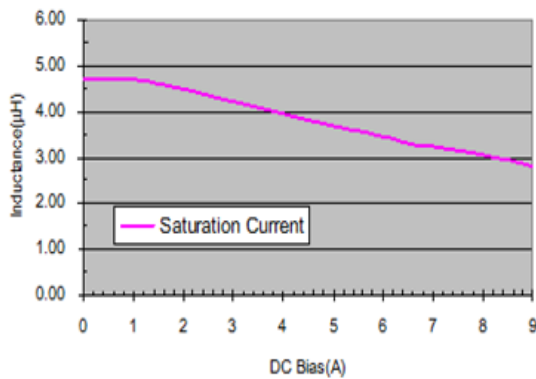


7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

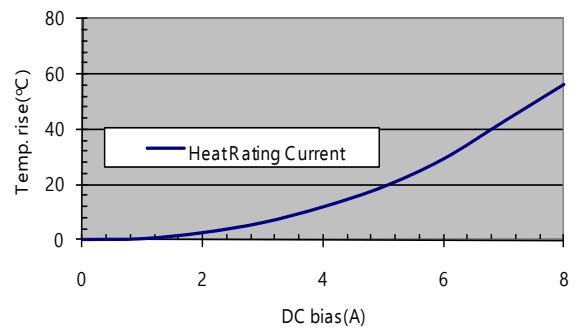
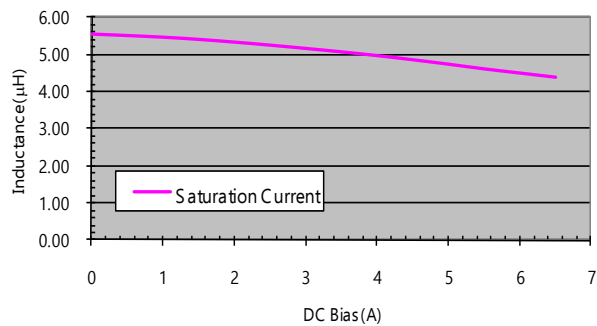
ASPI-0630LR-3R3



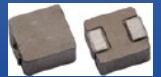
ASPI-0630LR-4R7



ASPI-0630LR-5R6



Molding Type Power Inductor



ASPI-0630LR

Request Samples

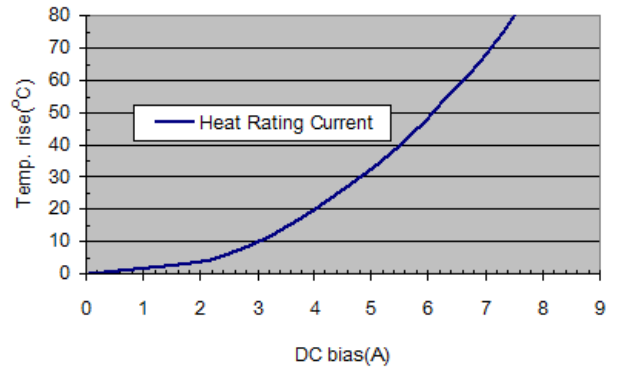
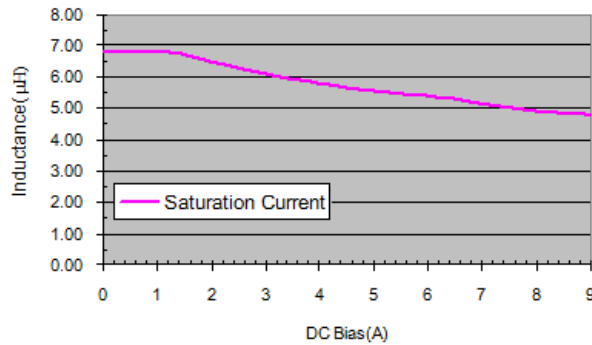


Check Inventory

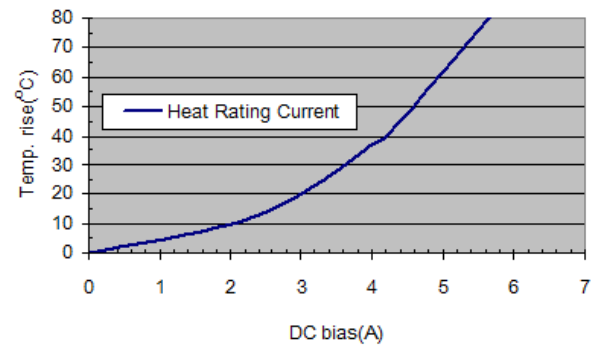
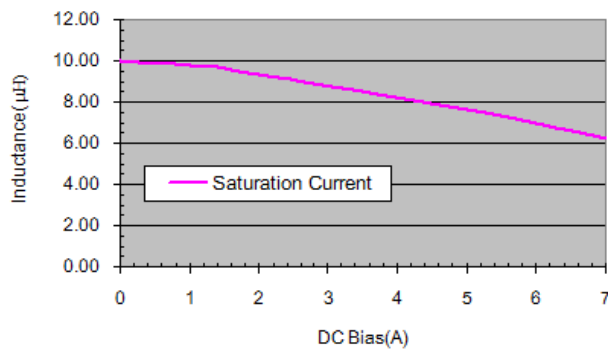


7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

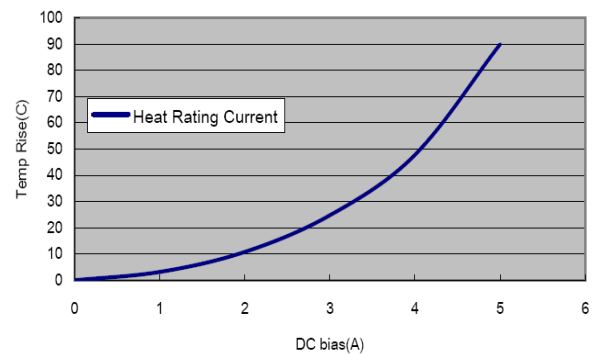
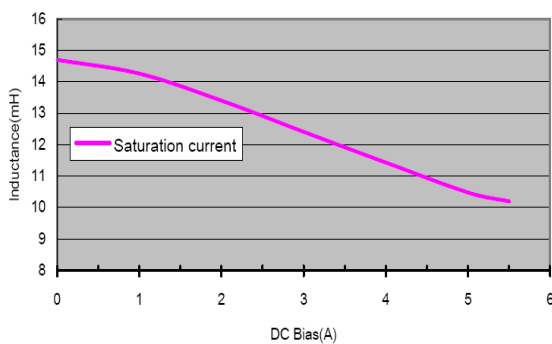
ASPI-0630LR-6R8



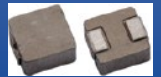
ASPI-0630LR-100



ASPI-0630LR-150



Molding Type Power Inductor



ASPI-0630LR

Request Samples

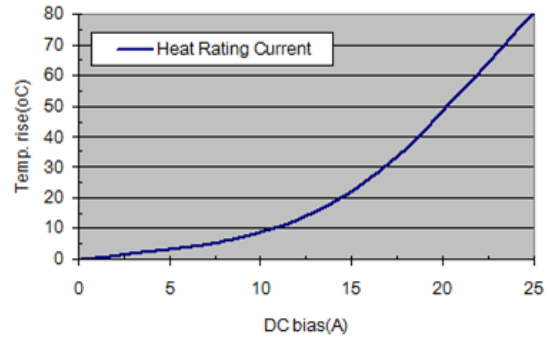
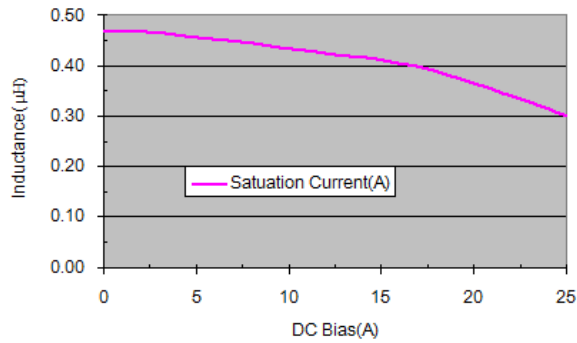


Check Inventory

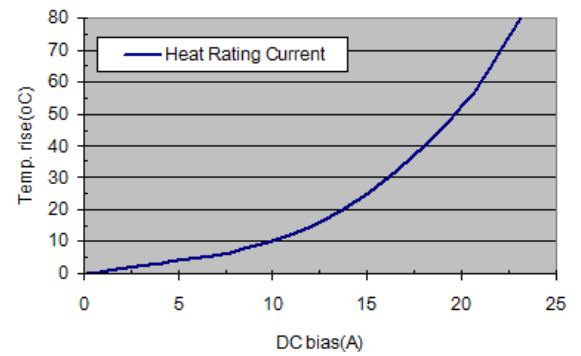
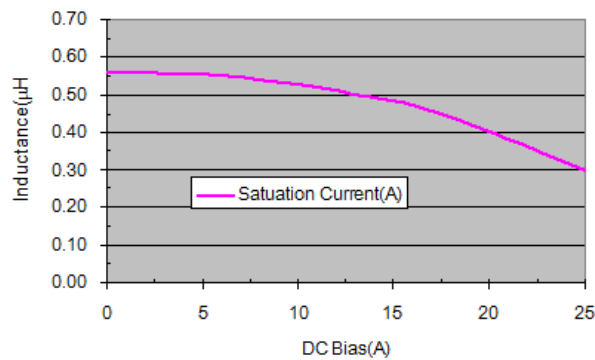


7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

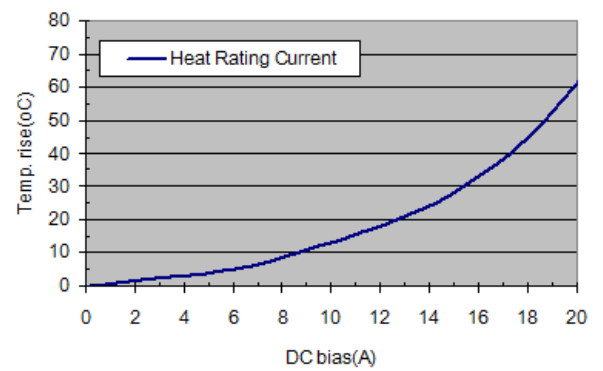
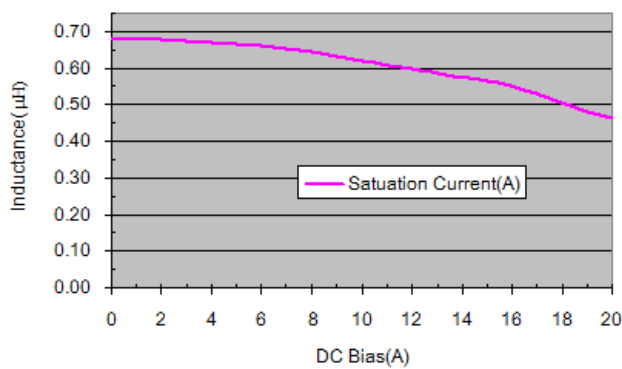
ASPI-0630LR-R47



ASPI-0630LR-R56



ASPI-0630LR-R68



Molding Type Power Inductor



ASPI-0630LR

Request Samples

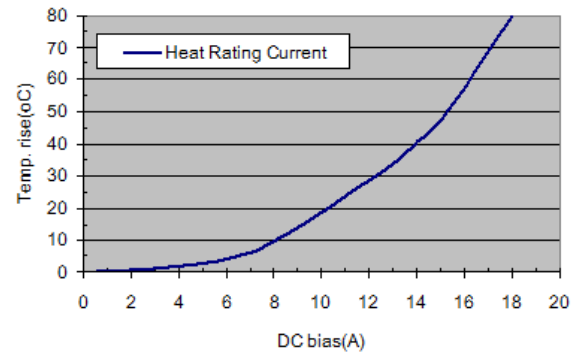
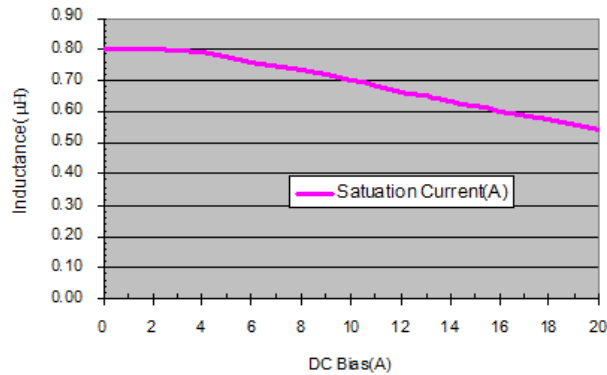


Check Inventory



7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

ASPI-0630LR-R82



Part Identification

ASPI-0630LR- -

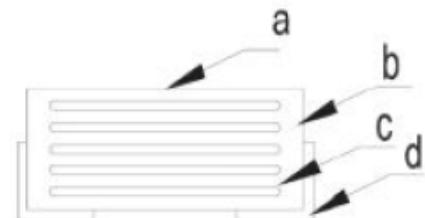
Inductance Code
 Please refer to the
 Electrical Spec Table

Tolerance
 M: ±20%

Packaging
 T15: Tape and Reel
 (1.5kpcs / reel)

Materials

| No. | Description | Specification |
|-----|-------------|--------------------------|
| a | Marking | Ink (black) |
| b | Core | Alloy Sponge Powder |
| c | Wire | Polyurethane copper wire |
| d | Terminal | Copper plated with Sn |



Molding Type Power Inductor



ASPI-0630LR

Request Samples

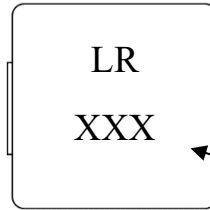


Check Inventory



7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Marking

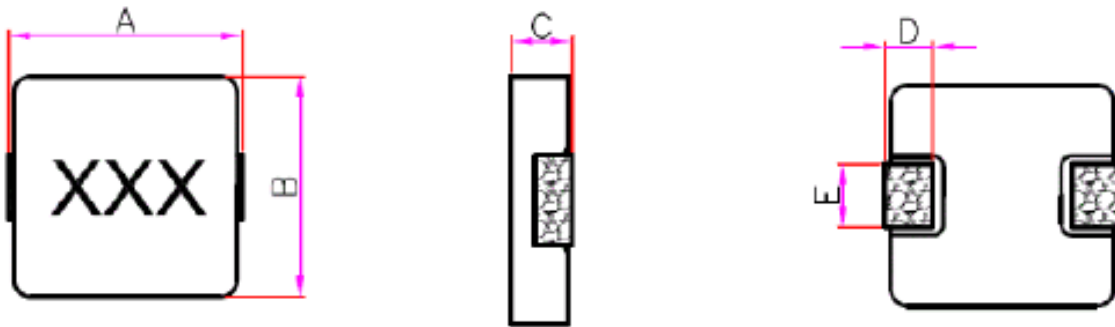


Inductance Code

e.g. 2R2

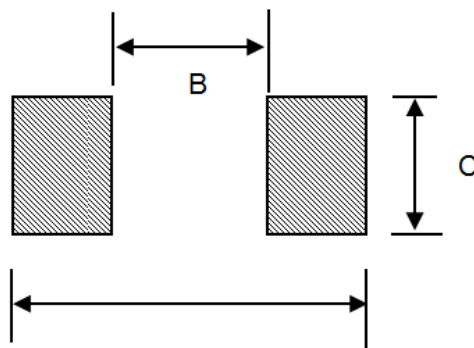
Marking Method = Ink Marking

Mechanical Specifications



| A | B | C | D | E |
|----------|-----------|----------|----------|-----------|
| 7.1 ±0.4 | 6.6 ±0.25 | 2.8 ±0.2 | 1.6 ±0.4 | 3.00 ±0.3 |

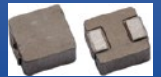
Recommended Land Pattern



Dimension: mm

| A | B | C |
|-----|-----|-----|
| 8.4 | 3.7 | 3.5 |

Molding Type Power Inductor



ASPI-0630LR

Request Samples

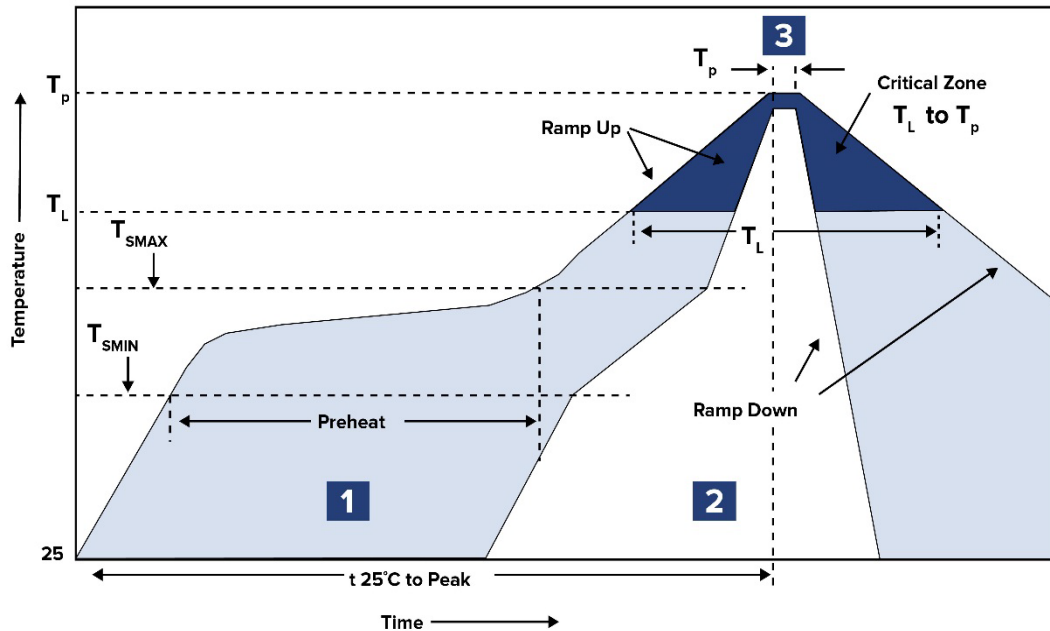


Check Inventory



7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Reflow Profile



| Zone | Description | Temperature | Times |
|------|-------------|---|--------------|
| 1 | Preheat | $T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C | 60 ~120 Sec. |
| 2 | Reflow | T_L 217°C | 60 ~90 Sec. |
| 3 | Peak heat | T_P 255°C (0/ -5°C) | 10 sec. Max |

Molding Type Power Inductor



ASPI-0630LR

Request Samples



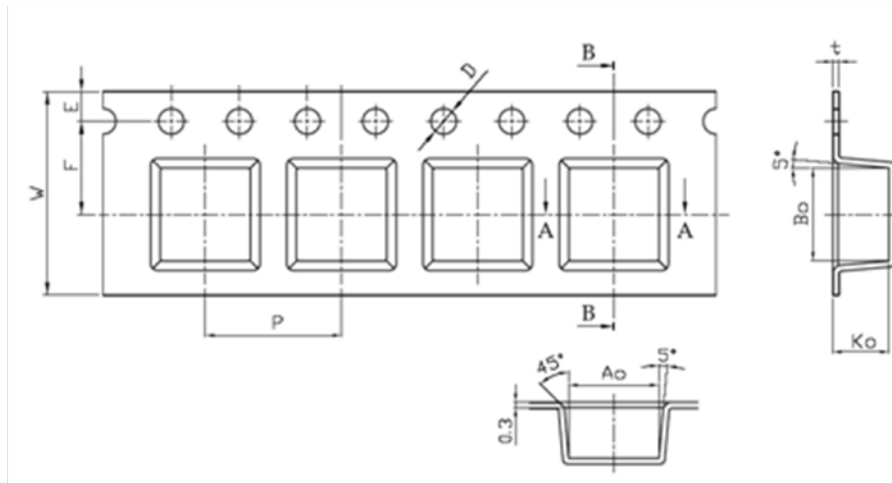
Check Inventory



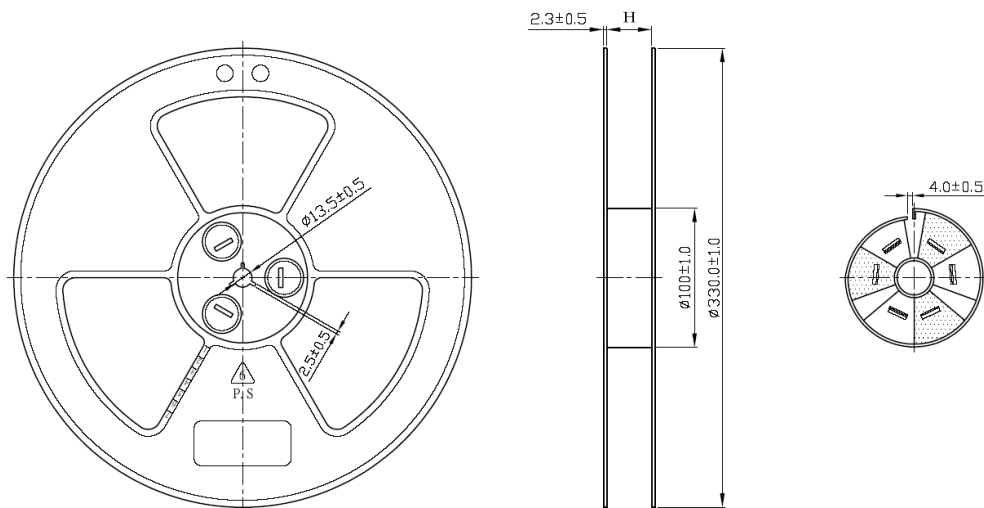
7.1 x 6.60 x 2.8 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Packing

T15: 1,500pcs / reel



| | |
|-----------|-----------------|
| A0 | 6.9 ±0.3 |
| B0 | 7.5 |
| K0 | 3.3 ±0.3 |
| P | 12.0 |
| t | 0.35 Max |
| W | 16 |
| E | 1.75 |
| F | 7.5 |
| D | 1.5 |



Dimension: mm

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669
 Phone: 512-371-6159 | Fax: 512-351-8858
 For terms and conditions of sales, please visit:
www.abracon.com

REVISION: B 03-02-22

ABRACON IS
 ISO9001-2015
 CERTIFIED