



磁立方

SPECIFICATION FOR APPROVAL

CUSTOMER : _____

CUSTOMER P/N : _____

DESCRIPTION : _____ SMD Inductor _____

Supplier P/N : _____ S2630-1R5M _____

REVISION NO. : _____ V1.0 _____

DATE : _____ 2021-Jan-14 _____

NOTES : _____ STANDARD _____

| Supplier DOCUMENTED | |
|---------------------|----------|
| APPROVED | David |
| CHECKED | Zhao yun |
| PREPARED | You yuan |

| CUSTOMER APPROVAL | |
|-------------------|--|
| | |

© Company seals

| | | | | |
|-------------|--------------|------------|---------|--------------|
| Version:1.0 | CUSTOMER P/N | | PRODUCT | SMD Inductor |
| | ITEM P/N | S2630-1R5M | DATE | 2021-Jan-14 |



深圳市磁立方科技有限公司
ShenZhen Magnetic Cube Technology Co., LTD.

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ADD:F2, Building C, Furong Road No.8 , Tantou, Songgang, Baoan District, Shenzhen



MAIN SPECIFICATION

EXPLANATION OF PART NUMBERS



CONNECTIONS:

- ⊙ Inductor Contents ONE (1) Set(s) of Coil.
- ⊙ DC/AC Current Shall Be Introduced By Any One of Two Pads.



PRODUCT DIMENSIONS (mm)




| Dimensions | |
|------------|---------|
| A | 6.9±0.4 |
| B | 7.0±0.4 |
| C | 3.3Max |
| D | 1.2±0.3 |
| E | 1.8±0.5 |
| G | 2.7 |
| H | 2.2 |
| I | 2.4 |

ELECTRICAL CHARACTERISTICS

| ITEM P/N | @25 ± 5 °C Ambient Temperature | | | DCR mΩ @ 25°C Typica | DCR mΩ @ 25°C Max |
|------------|--------------------------------|--|--|----------------------------|-------------------------|
| | INDUCTANCE 100KHz, 0.1V | Typical Heat Rating DC Current (A) (Idc) | Typical Saturation DC Current (A) (Isat) | | |
| | Lo (μH) | | | | |
| S2630-1R5M | 1.5±20% | 7.5 | 12 | 12.7 | 13.97 |

- ⊙ All test Data is referenced to 25°C ambient.
- ⊙ Typical Heat Rating DC Current would cause an approximately Δ T of 50°C .
- ⊙ Typical Saturation DC Current would cause Lo to drop approximately 30%.
- ⊙ The Part temperature (ambient + Δ T) should not exceed 125°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.

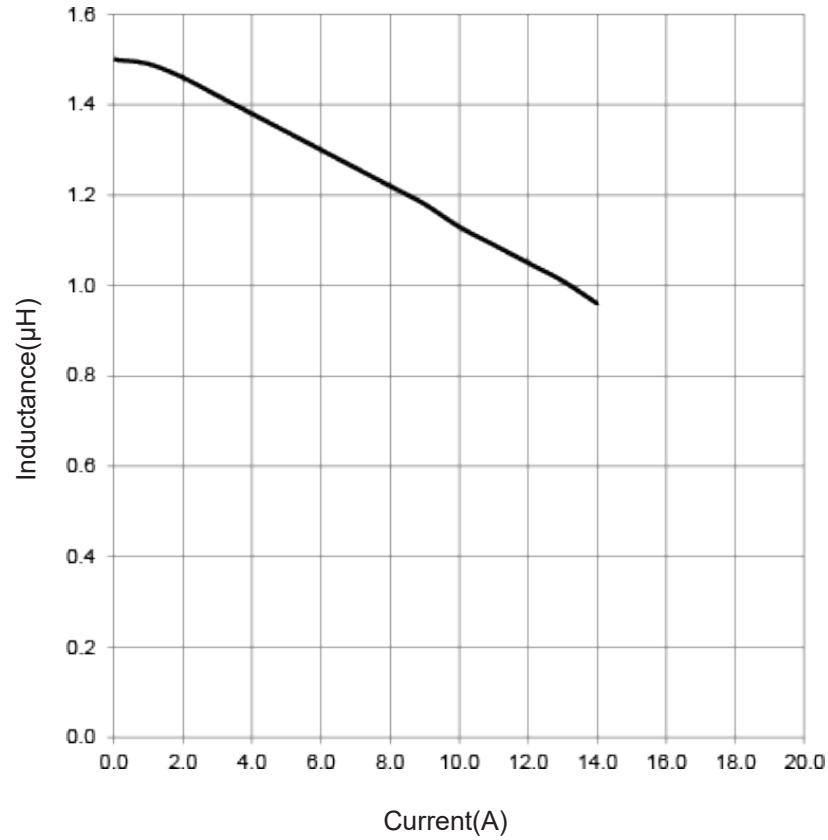
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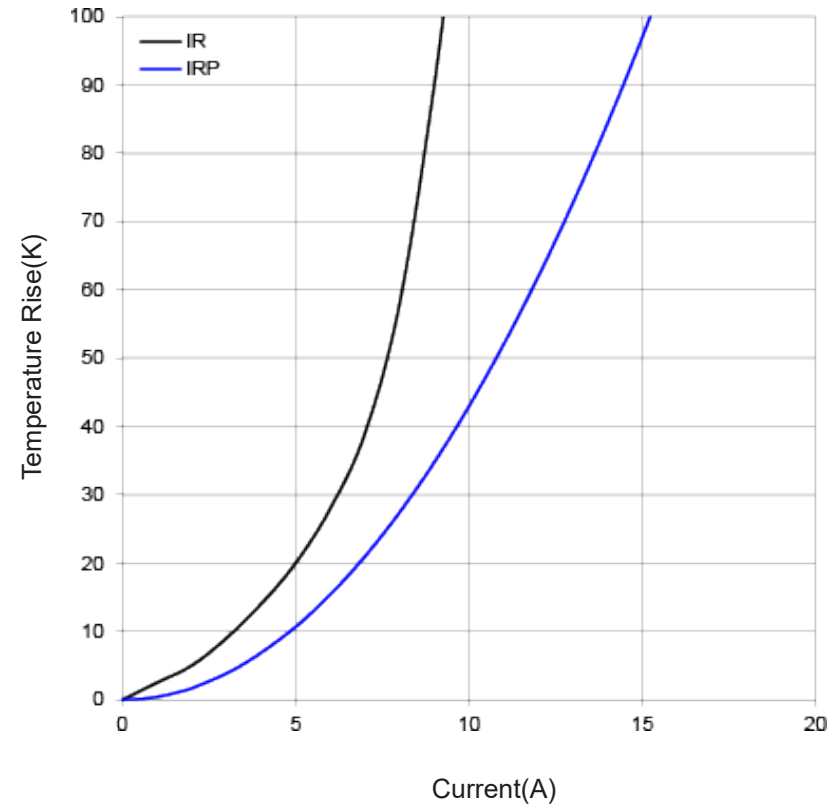


CHARACTERISTICS

IDC Curve:



Typical Temperature Rise VS Current Curve:



| | | | | |
|-------------|--------------|------------|---------|--------------|
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CHARACTERISTICS

RECOMMENDED SOLDERING TEMP. GRAPH



| A | B | C | D | E |
|-------|-------|---------|-------|-----------|
| 260°C | 230°C | 8-10Sec | 150°C | 60~240Sec |

MECHANICAL RELIABILITY

| TEST | Specification & Requirement | Method Used |
|---------------|--|--|
| Solderability | The surface of terminal/pin tested shall be covered with new solder by 95% | Solder heat proof. |
| | | Preheating: 180 ±10°C 90 seconds |
| | | Soldering: 255 ±5°C for 3 ±1 sec |
| Shock | Inductance change within ± 5% Without mechanical damage | Drop down with 981m/s ² (100G) shock |
| | | Attitude upon a rubber block method shock testing machinem, 3 tests. |
| Vibration | Inductance change within ± 5% Without mechanical damage | Vibration frequency: 10Hz to 55Hz to 10Hz, 60 seconds cycle. |
| | | Vibration time: 2 hours |

ENDURANCE RELIABILITY

| TEST | Specification & Requirement | Method Used |
|---------------------|---|---|
| Thermal Shock | Inductance change within ± 5% Without mechanical damage | -25°C ,(30 mins) -> room temp. (5 mins) ->125°C , (30 mins) -> room temp. (5 mins) 100 cycles |
| Heat Resistance | Inductance change within ± 5% Without mechanical damage | Apply IDC current @ 85°C ambient Duration: 1000 hrs |
| Humidity Resistance | Inductance change within ± 5% Without mechanical damage | Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 1000 hrs |
| Low Temp. Storing | Inductance change within ± 5% Without mechanical damage | Storing Temp -25 ±2 °C for total 1,000 +4/-0 hours |
| High Temp. Storing | Inductance change within ± 5% Without mechanical damage | Storing Temp 125±2 °C for total 1,000 +4/-0 hours |

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PACKING INFORMATION

CARRIER TAPEING REEL & CARRIER MATERIALS (PAPER PLASTICS) UNIT : (mm)



| TYPE | A | B | C | D | E | G | G2 |
|----------|-------|--------|--------|-------|---------|----------|----------|
| 13"*16mm | 330±1 | 20±0.8 | 13±0.5 | 100±1 | 2.0±0.5 | 16.5±0.5 | 20.5±0.5 |

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PACKING INFORMATION

CARRIER TAPEING REEL & CARRIER MATERIALS (PAPER PLASTICS) UNIT : (mm)



| QTY (Pcs/Reel) | Ao | Bo | Ko | W | P |
|----------------|-----|-----|-----|----|----|
| 1500 | 7.2 | 7.8 | 3.5 | 16 | 12 |

Typical Pulling Force: 10~130grams:



| | | | | |
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