

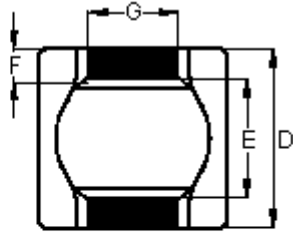
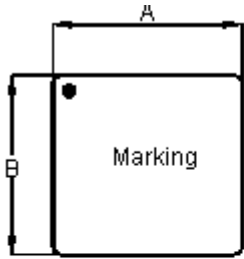
PART NO.

MCSC5018-2R7MU

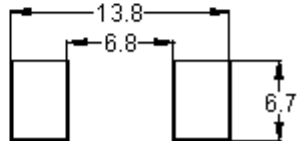
REVISIONS

| ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|--------|---------|--------|---------|---------|---------|
| - | A | RELEASED | Shashi | 07/2/11 | Jagan | 07/2/11 | Farnell | 21/2/11 |

Configurations and Dimensions

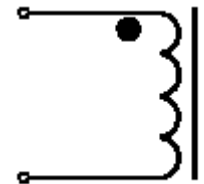


| | | |
|---|--------------|-------------|
| A | 12.6 ±0.4 mm | - |
| B | 12.6 ±0.4 mm | - |
| C | 4.6 ±0.4 mm | - |
| D | 12.7 ±0.4 mm | - |
| E | 7.6 ±0.4 mm | - |
| F | 2.4 mm | (Reference) |
| G | 5 ±0.4 mm | - |



Dimensions : Millimetres

Schematic Diagram



Note:

1. Wire FW031240054505T5-A28
2. 5.5TS

Marking : 2R7 1. The long pin is the beginning of winding.
YYWW

Electrical Characteristics

| | | |
|---|-----------------------|--------------------|
| 300KHz 0.25V | L | 2.7µH ±20% |
| Ta = 25°C | DCR | 4.3mΩ ±7% |
| 300KHz 0.25V I _{rms} = 15A (Maximum) | L at I _{rms} | 2.22µH (Reference) |
| 300KHz 0.25V I _{max} = 24A (Maximum) | L at I _{max} | 1.93µH (Reference) |

Operating temperature: -40°C to +150°C

Note

- I_{rms} : DC current rating at 50°C temperature raise (typical)
I_{max} : DC current rating at 100°C temperature raise (typical)

Test Data for Mechanical

| Test Item | A mm | B mm | C mm | D mm | E mm | F mm | G mm |
|---------------|-----------|-----------|----------|-----------|----------|-----------------|--------|
| Specification | 12.6 ±0.4 | 12.6 ±0.4 | 4.6 ±0.4 | 12.7 ±0.4 | 7.6 ±0.4 | 2.4 (Reference) | 5 ±0.4 |
| 1 | 12.75 | 12.76 | 4.76 | 12.77 | 7.75 | 2.38 | 4.74 |
| 2 | 12.76 | 12.77 | 4.82 | 12.8 | 7.69 | 2.39 | 4.79 |
| 3 | 12.73 | 12.74 | 4.79 | 12.83 | 7.78 | 2.38 | 4.84 |
| 4 | 12.76 | 12.76 | 4.71 | 12.87 | 7.69 | | 4.88 |
| 5 | 12.74 | 12.75 | 4.73 | 12.76 | 7.75 | 2.39 | 4.86 |
| Average | 12.75 | 12.76 | 4.76 | 12.81 | 7.73 | 2.38 | 4.82 |

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DRAWN BY:

Shashi

DATE:

07/02/11

DRAWING TITLE:

Inductor

CHECKED BY:

Jagan

DATE:

07/02/11

APPROVED BY:

Farnell

DATE:

21/02/11

SIZE
A

DWG NO.

M10002651

ELECTRONIC FILE
SC5018-2R7MU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCSC5018-2R7MU

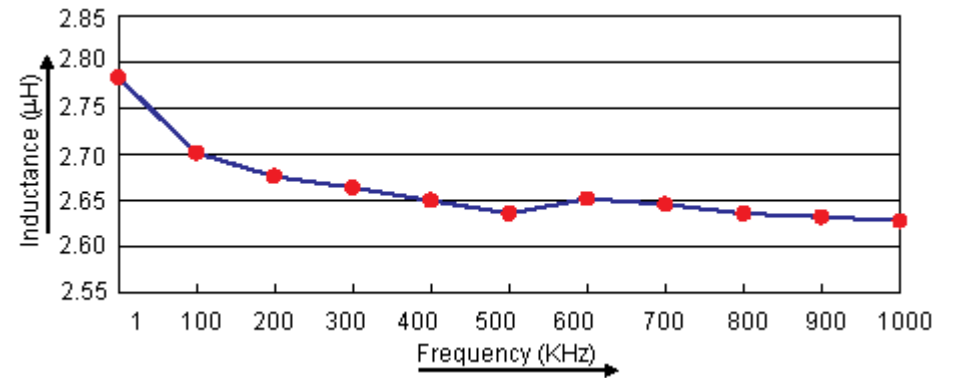
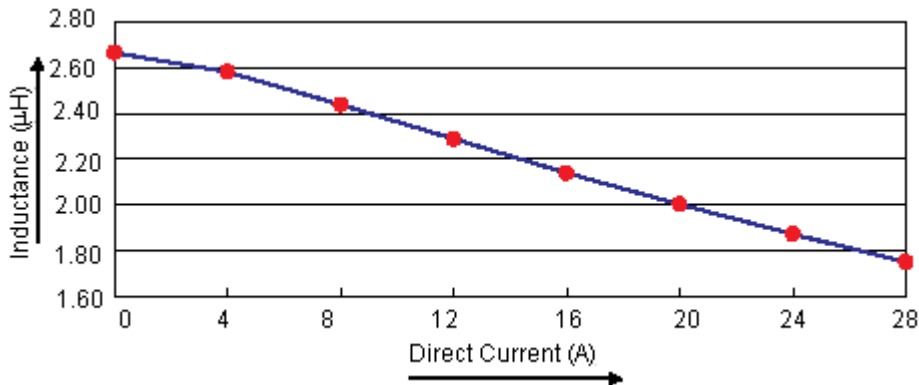
REVISIONS

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|-------|-----|-------------|--------|---------|--------|---------|---------|---------|
| - | A | RELEASED | Shashi | 07/2/11 | Jagan | 07/2/11 | Farnell | 21/2/11 |

Test Data for Electrical

| Test Item | L μ H | DCR $m\Omega$ | L at I_{rms} μ H | L at I_{max} μ H |
|---------------|---------------|---------------|---|---|
| Condition | 300KHz 0.25V | at 25°C | 300KHz 0.25V $I_{rms} = 15A$ (Maximum) | 300KHz 0.25V $I_{max} = 24A$ (Maximum) |
| Specification | 2.7 \pm 20% | 4.3 \pm 7% | 2.22 (Reference) | 1.93 (Reference) |
| 1 | 2.58 | 4.19 | 2.14 | 1.9 |
| 2 | 2.68 | | 2.21 | 1.97 |
| 3 | 2.66 | | 2.18 | 1.93 |
| 4 | 2.65 | | 2.16 | 1.92 |
| 5 | 2.67 | 4.2 | 2.18 | 1.93 |
| Average | 2.65 | 4.19 | 2.17 | 1.93 |

Electric Characteristics



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| DRAWN BY: | DATE: |
| Shashi | 07/02/11 |
| CHECKED BY: | DATE: |
| Jagan | 07/02/11 |
| APPROVED BY: | DATE: |
| Farnell | 21/02/11 |

DRAWING TITLE:

Inductor

| | | | |
|------------|------------|-----------------|-----|
| SIZE | DWG NO. | ELECTRONIC FILE | REV |
| A | M10002651 | SC5018-2R7MU | A |
| SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 3 | |