



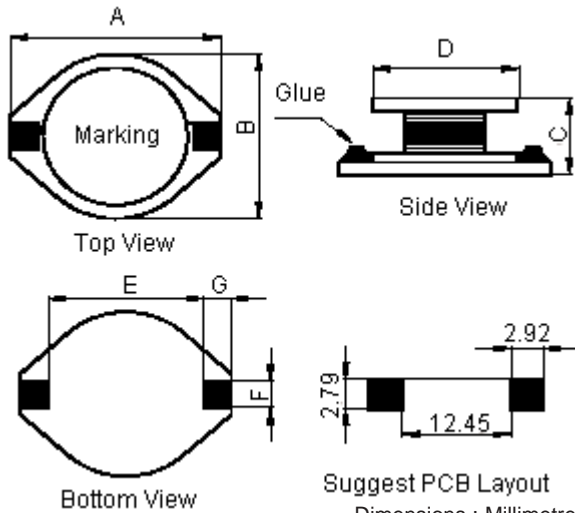
PART NO.

MCBF7330-331MU

REVISIONS

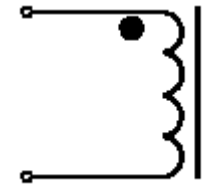
| ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|-------|---------|--------|---------|---------|---------|
| - | A | RELEASED | Sidhu | 14/2/11 | Jagan | 14/2/11 | Farnell | 28/2/11 |

Configurations and Dimensions



| | | |
|---|--------------|-----------|
| A | 18.54 mm | Maximum |
| B | 15.24 mm | Maximum |
| C | 7.11 mm | Maximum |
| D | 12.7 ±0.3 mm | - |
| E | 12.92 mm | Reference |
| F | 2.54 mm | Reference |
| G | 2.54 mm | Reference |

Schematic Diagram



Note:

- (1) Wire Ø0.32mm x 1P 2UEWF 155°C
- (2) 69.5TS (Reference)

Marking : 331
YYWW

YY : Year
WW : Week

Electrical Characteristics

(at 25°C)

| Test Condition | | |
|------------------------------------|-----|---------------------------------|
| 100KHz 0.25V | L | 330µH ±20% |
| at 25°C | DCR | 560mΩ (Maximum) |
| 100KHz 0.25V I _{rms} = 1A | ΔT | Temperature Rise 40°C (Maximum) |

Operating temperature: -40°C to +125°C

Test Data for Mechanical

| Test Item | A mm | B mm | C mm | D mm | E mm | F mm | G mm |
|---------------|-----------------|-----------------|----------------|-----------|-------------------|------------------|------------------|
| Specification | 18.54 (Maximum) | 15.24 (Maximum) | 7.11 (Maximum) | 12.7 ±0.3 | 12.92 (Reference) | 2.54 (Reference) | 2.54 (Reference) |
| 1 | 18.46 | 14.07 | 6.24 | 12.75 | 13.20 | 2.53 | 2.56 |
| 2 | 18.45 | 14.06 | 6.26 | 12.78 | 13.17 | 2.51 | |
| 3 | 18.46 | 14.05 | 6.25 | 12.76 | 13.21 | 2.52 | 2.57 |
| 4 | 18.49 | 14.04 | 6.26 | 12.79 | 13.22 | 2.51 | 2.54 |
| 5 | 18.47 | 14.08 | 6.28 | 12.76 | 13.2 | | 2.57 |
| Average | 18.47 | 14.06 | 6.26 | 12.77 | 13.2 | 2.52 | 2.56 |

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TOLERANCES:

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DRAWN BY:

Sidhu

DATE:

14/02/11

CHECKED BY:

Jagan

DATE:

14/02/11

APPROVED BY:

Farnell

DATE:

28/02/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10003218

ELECTRONIC FILE

BF7330-331MU

REV

A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



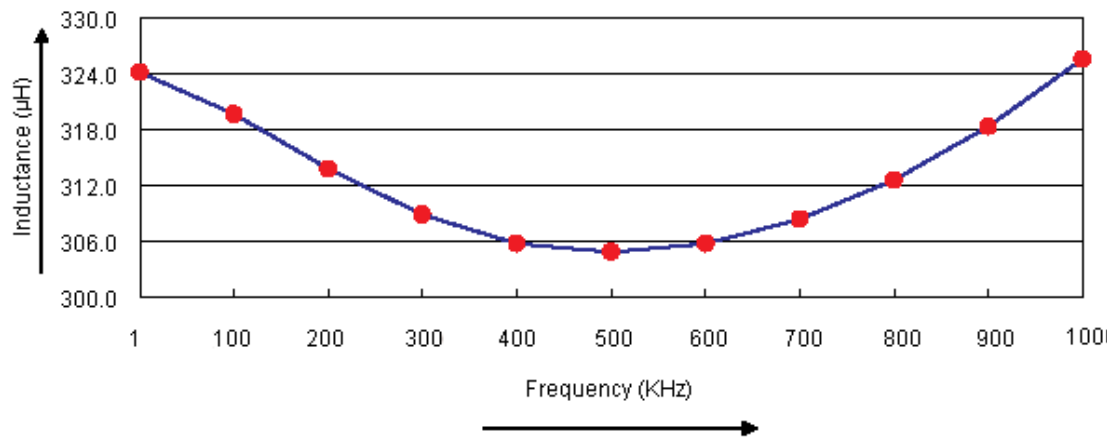
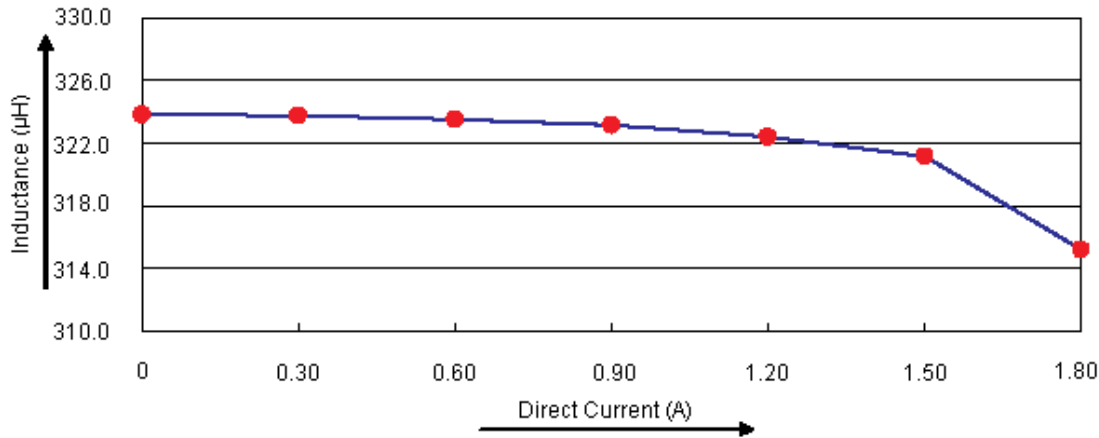
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|-------|-----|-------------|-------|---------|--------|---------|---------|---------|
| - | A | RELEASED | Sidhu | 14/2/11 | Jagan | 14/2/11 | Farnell | 28/2/11 |

Electric Characteristics



Test Data for Electrical

| Test Item | L µH | DCR mΩ | ΔT |
|---------------|-----------------|------------------|---------------------------------------|
| Condition | 100KHz 0.25V | at 25°C | 100KHz 0.25V I _{rms} = 1A |
| Specification | 330 ±20% | 560 (Maximum) | Temperature Rise 40°C (Maximum) |
| 1 | 337.9 | 430.1 | OK |
| 2 | 335.6 | 432.4 | OK |
| 3 | 338.7 | 431.3 | OK |
| 4 | 336.4 | 431.2 | OK |
| 5 | 332.7 | 431.7 | OK |
| Average | 336.26 | 431.34 | OK |

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| Jagan | 14/02/11 |
| APPROVED BY: | DATE: |
| Farnell | 28/02/11 |

DRAWING TITLE:

Inductor

| | | | |
|------------|----------------------|---------------------------------|----------|
| SIZE A | DWG NO. M10003218 | ELECTRONIC FILE BF7330-331MU | REV A |
| SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 3 | |



PART NO.

MCBF7330-331MU

REVISIONS

| ECN # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|-------|---------|--------|---------|---------|---------|
| - | A | RELEASED | Sidhu | 14/2/11 | Jagan | 14/2/11 | Farnell | 28/2/11 |

Reliability Test

| Test Items | Specifications | Test Method and Remarks |
|-----------------------------|--|--|
| Operating temperature range | -40°C to +125°C | Including temperature rise due to self-generated heat |
| Storage condition | Ambient temperature : 0°C to 40°C Humidity : Below 70%RH | To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area. |
| Moisture sensitivity | Appearance : No abnormality No damage DCR change : Within ±20% Inductance change : Within ±20% | According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hours Recovery : 1 to 2 hours of recovery under the standard condition after the removal from the test chamber. |
| Solderability | All termination shall exhibit a continuous solder coating free from defects for a minimum of 90% of the surface area of any individual lead. | According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hours Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0/-0.5 seconds. |

Material List

| No. | Item | Material Description |
|-----|--------------------|----------------------------|
| 1 | Core | T2 DR12.7 x 5.6C B5.8 F3.3 |
| 2 | Wire | Ø0.32mm x 1P 2UEWF 155°C |
| 3 | Solder (Lead Free) | Sn99.3% / Cu0.7% |
| 4 | Glue | TH320 |
| 5 | Base | DAP HD 127-3 |

Part Number Table

| Description | Part Number |
|---------------------------|----------------|
| Inductor, 330µH, 20%, SMD | MCBF7330-331MU |

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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| APPROVED BY: | DATE: |
| Farnell | 28/02/11 |

DRAWING TITLE:

Inductor

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|------------|----------------------|---------------------------------|----------|
| SIZE A | DWG NO. M10003218 | ELECTRONIC FILE BF7330-331MU | REV A |
| SCALE: NTS | U.O.M.: mm | SHEET: 3 OF 3 | |