

# MURATA POWER SOLUTIONS Inductors



RoHS Compliant This product is RoHS compliant.



## 1400 SERIES BOBBIN INDUCTORS

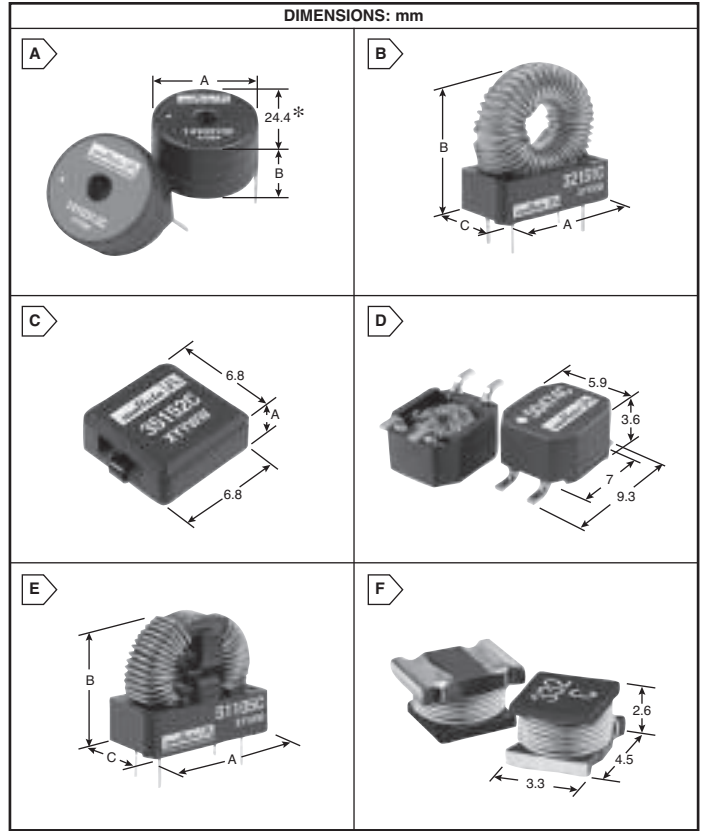
- Low DC resistance
- Low temperature dependence
- Radial format
- PCB Mounting hole

- Operating temperature: -40°C to +85°C
- RoHS Compliant
- \* Dim: 29.8

RoHS Compliant

For quantities of 25 and up, call for quote.

| MOUSER STOCK NO. | MPS Part No. | Fig. | L (μH) | IDC Max. (A) | RDC Max. (Ω) | Nom. Q @ f kHz |     | SRF Typ. (MHz) | Dimension (mm) |      | Price Each |      |      |
|------------------|--------------|------|--------|--------------|--------------|----------------|-----|----------------|----------------|------|------------|------|------|
|                  |              |      |        |              |              | Q              | F   |                | A              | B    | 1          | 5    | 10   |
| 580-1410313C     | 1410313C     | A    | 10     | 13           | 0.007        | 54             | 50  | 20.7           | 27.0           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1422311C     | 1422311C     | A    | 22     | 11           | 0.011        | 64             | 100 | 9.3            | 27.0           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1433393C     | 1433393C     | A    | 33     | 9.3          | 0.015        | 27             | 50  | 9.1            | 27.0           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1447383C     | 1447383C     | A    | 47     | 8.3          | 0.019        | 40             | 100 | 6.0            | 27.0           | 18.5 | 2.64       | 2.55 | 2.48 |
| 580-1447385C     | 1447385C     | A    | 47     | 8.5          | 0.021        | 33             | 100 | 6.7            | 26.8           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1468362C     | 1468362C     | A    | 68     | 6.2          | 0.032        | 32             | 100 | 5.3            | 26.5           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1468373C     | 1468373C     | A    | 68     | 7.3          | 0.022        | 45             | 100 | 5.3            | 27.0           | 18.5 | 2.64       | 2.55 | 2.48 |
| 580-1410454C     | 1410454C     | A    | 100    | 5.4          | 0.042        | 24             | 100 | 4.6            | 26.4           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1415440C     | 1415440C     | A    | 150    | 4.0          | 0.069        | 24             | 50  | 3.4            | 26.2           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1422435C     | 1422435C     | A    | 220    | 3.5          | 0.096        | 22             | 50  | 2.8            | 26.1           | 14.0 | 2.49       | 2.42 | 2.34 |
| *580-1422455C    | 1422455C     | A    | 220    | 5.5          | 0.062        | 30             | 50  | 2.2            | 32.1           | 21.8 | 4.04       | 3.92 | 3.80 |
| 580-1430430C     | 1430430C     | A    | 300    | 3            | 0.14         | 26             | 50  | 2.6            | 25.9           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1433428C     | 1433428C     | A    | 330    | 2.8          | 0.150        | 22             | 50  | 2.5            | 25.9           | 14.0 | 2.49       | 2.42 | 2.34 |
| *580-1433445C    | 1433445C     | A    | 330    | 4.5          | 0.091        | 25             | 50  | 1.6            | 31.8           | 21.8 | 4.04       | 3.92 | 3.80 |
| 580-1447423C     | 1447423C     | A    | 470    | 2.3          | 0.222        | 34             | 50  | 2.0            | 25.7           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1468420C     | 1468420C     | A    | 680    | 2.0          | 0.276        | 23             | 50  | 1.6            | 25.7           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1410516C     | 1410516C     | A    | 1000   | 1.6          | 0.419        | 30             | 50  | 1.4            | 25.6           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1410517C     | 1410517C     | A    | 1000   | 1.7          | 0.336        | 35             | 50  | 1.2            | 25.7           | 18.5 | 2.64       | 2.55 | 2.48 |
| *580-1410524C    | 1410524C     | A    | 1000   | 2.4          | 0.277        | 33             | 50  | 1              | 31.4           | 21.8 | 4.04       | 3.92 | 3.80 |
| *580-1415517C    | 1415517C     | A    | 1.5mH  | 1.7          | 0.374        | 28             | 50  | 0.7            | 31.3           | 21.8 | 4.04       | 3.92 | 3.80 |
| 580-1422509C     | 1422509C     | A    | 2.2mH  | 0.9          | 0.916        | 43             | 50  | 0.9            | 25.3           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1422512C     | 1422512C     | A    | 2.2mH  | 1.2          | 0.649        | 33             | 50  | 0.7            | 25.6           | 18.5 | 2.64       | 2.55 | 2.48 |
| *580-1422514C    | 1422514C     | A    | 2.2mH  | 1.4          | 0.622        | 33             | 50  | 0.6            | 31.1           | 21.8 | 4.04       | 3.92 | 3.80 |
| *580-1433507C    | 1433507C     | A    | 3.3mH  | 0.7          | 1.428        | 45             | 50  | 0.8            | 25.2           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1433510C     | 1433510C     | A    | 3.3mH  | 1            | 1.992        | 20             | 50  | 0.7            | 25.5           | 18.5 | 2.64       | 2.55 | 2.48 |
| 580-1447506C     | 1447506C     | A    | 4.7mH  | 0.6          | 2.2          | 60             | 50  | 0.6            | 25.2           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1410604C     | 1410604C     | A    | 10mH   | 0.4          | 4.34         | 51             | 50  | 0.4            | 25.1           | 14.0 | 2.49       | 2.42 | 2.34 |
| 580-1410605C     | 1410605C     | A    | 10mH   | 0.5          | 3.394        | 48             | 50  | 0.3            | 25.2           | 18.5 | 2.64       | 2.55 | 2.48 |
| *580-1410606C    | 1410606C     | A    | 10mH   | 0.6          | 2.294        | 48             | 50  | 0.2            | 30.9           | 21.8 | 4.04       | 3.92 | 3.80 |
| 580-1415604C     | 1415604C     | A    | 15mH   | 0.4          | 4.912        | 61             | 10  | 0.2            | 25.1           | 18.5 | 2.64       | 2.55 | 2.48 |
| *580-1422604C    | 1422604C     | A    | 22mH   | 0.4          | 6.962        | 30             | 50  | 0.2            | 30.5           | 21.8 | 4.04       | 3.92 | 3.80 |



Inductors

Murata Power Solutions

## VERTICAL MOUNT TOROIDAL INDUCTORS

- Toroidal construction
- Low DC resistance
- Low EMI
- UL94V-0 packaging materials

- Through-hole
- RoHS Compliant

RoHS Compliant

For quantities of 25 and up, call for quote.

| MOUSER STOCK NO.   | MPS Part No. | Fig. | L (μH) | IDC Max. (A) | RDC Max. (mΩ) | Nom. Q @ f MHz |      | SRF Typ. (MHz) | Price Each |      |      |
|--|--------------|------|--------|--------------|---------------|----------------|------|----------------|------------|------|------|
|  |              |      |        |              |               | Q              | F    |                | 1          | 5    | 10   |
| <b>3200 Series</b> • Dimensions (mm): A-18, B-24, C-10   |              |      |        |              |               |                |      |                |            |      |      |
| 580-32100C   | 32100C       | B    | 10     | 4.5          | 20            | 3.1            | 1.0  | 69             | 1.71       | 1.67 | 1.63 |
| 580-32150C   | 32150C       | B    | 15     | 3.7          | 24            | 3.1            | 1.0  | 53             | 1.71       | 1.67 | 1.63 |
| 580-32200C   | 32200C       | B    | 22     | 3.0          | 29            | 3.2            | 1.0  | 41             | 1.71       | 1.67 | 1.63 |
| 580-32470C   | 32470C       | B    | 47     | 2.1          | 42            | 3.1            | 1.0  | 21             | 1.71       | 1.67 | 1.63 |
| 580-32680C   | 32680C       | B    | 68     | 1.7          | 62            | 3.1            | 1.0  | 11             | 1.71       | 1.67 | 1.63 |
| 580-32101C   | 32101C       | B    | 100    | 1.4          | 77            | 3.5            | 0.8  | 5.3            | 1.71       | 1.67 | 1.63 |
| 580-32151C   | 32151C       | B    | 150    | 1.2          | 117           | 3.3            | 0.8  | 3.3            | 1.71       | 1.67 | 1.63 |
| 580-32221C   | 32221C       | B    | 220    | 0.96         | 141           | 3.3            | 0.8  | 2.8            | 1.71       | 1.67 | 1.63 |
| 580-32331C   | 32331C       | B    | 330    | 0.78         | 215           | 3.2            | 0.8  | 2.3            | 1.71       | 1.67 | 1.63 |
| 580-32471C   | 32471C       | B    | 470    | 0.66         | 312           | 2.8            | 0.8  | 1.6            | 1.71       | 1.67 | 1.63 |
| 580-32102C   | 32102C       | B    | 1000   | 0.45         | 568           | 1.2            | 0.8  | 1.0            | 1.71       | 1.67 | 1.63 |
| <b>3300 Series</b> • Dimensions (mm): A-24, B-31, C-16.3 |              |      |        |              |               |                |      |                |            |      |      |
| 580-33100C   | 33100C       | B    | 10     | 7.6          | 20            | 3.4            | 1.0  | 68             | 1.81       | 1.77 | 1.72 |
| 580-33150C   | 33150C       | B    | 15     | 6.2          | 27            | 3.3            | 1.0  | 49             | 1.81       | 1.77 | 1.72 |
| 580-33220C   | 33220C       | B    | 22     | 5.1          | 33            | 3.4            | 1.0  | 37             | 1.81       | 1.77 | 1.72 |
| 580-33300C   | 33300C       | B    | 33     | 4.2          | 40            | 3.5            | 1.0  | 24             | 1.81       | 1.77 | 1.72 |
| 580-33470C   | 33470C       | B    | 47     | 3.5          | 48            | 3.4            | 1.0  | 17             | 1.81       | 1.77 | 1.72 |
| 580-33101C   | 33101C       | B    | 100    | 2.4          | 70            | 3.9            | 0.8  | 9.7            | 1.81       | 1.77 | 1.72 |
| 580-33151C   | 33151C       | B    | 150    | 2.0          | 84            | 3.8            | 0.8  | 7.2            | 1.81       | 1.77 | 1.72 |
| 580-33221C   | 33221C       | B    | 220    | 1.6          | 102           | 3.2            | 0.8  | 2.0            | 1.81       | 1.77 | 1.72 |
| 580-33331C   | 33331C       | B    | 330    | 1.3          | 126           | 3.4            | 0.8  | 1.9            | 1.81       | 1.77 | 1.72 |
| 580-33471C   | 33471C       | B    | 470    | 1.1          | 152           | 2.6            | 0.8  | 1.4            | 1.81       | 1.77 | 1.72 |
| 580-33102C   | 33102C       | B    | 1000   | 0.76         | 221           | 1.0            | 0.85 | 0.8            | 1.81       | 1.77 | 1.72 |

## FLAT COIL SMD POWER INDUCTORS

- Inductance range from 0.25μH to 4.7μH
- UL94V-0 packaging materials
- Low DC resistance

- RoHS Compliant

RoHS Compliant

For quantities of 25 and up, call for quote.

| MOUSER STOCK NO.   | MPS Part No. | Fig. | L (μH) | IDC Max. (A) | RDC Max. (mΩ) | Dimension A (mm) | Price Each |      |      |
|--------------------|--------------|------|--------|--------------|---------------|------------------|------------|------|------|
|                    |              |      |        |              |               |                  | 1          | 5    | 10   |
| <b>3600 Series</b> |              |      |        |              |               |                  |            |      |      |
| 580-36401C         | 36401C       | C    | 0.4    | 14.5         | 4.0           | 4.2              | 1.19       | 1.13 | 1.08 |
| 580-36601C         | 36601C       | C    | 0.6    | 12.5         | 5.0           | 4.2              | 1.19       | 1.13 | 1.08 |
| 580-36102C         | 36102C       | C    | 1.0    | 9.5          | 7.5           | 4.2              | 1.19       | 1.13 | 1.08 |
| 580-36182C         | 36182C       | C    | 1.8    | 7.0          | 14            | 4.2              | 1.19       | 1.13 | 1.08 |
| 580-36232C         | 36232C       | C    | 2.3    | 6.0          | 20            | 4.2              | 1.19       | 1.13 | 1.08 |
| 580-36472C         | 36472C       | C    | 4.7    | 3.6          | 41            | 4.2              | 1.19       | 1.13 | 1.08 |

## 5000 SERIES SURFACE MOUNT COMMON MODE CHOKES

- Up to 0.7A Idc
- UL94V-0 package
- Compact Size
- J-STD-020C reflow
- RoHS Compliant

For quantities of 25 and up, call for quote.

| MOUSER STOCK NO. | MPS Part No. | Fig. | L (mH) | Leakage L Typ. (μH) | IDC Max. (mA) | RDC Max. (Ω) | Price Each |      |      |
|------------------|--------------|------|--------|---------------------|---------------|--------------|------------|------|------|
|                  |              |      |        |                     |               |              | 1          | 5    | 10   |
| 580-50474C       | 50474C       | D    | 0.47   | 0.2                 | 700           | 0.3          | 1.55       | 1.43 | 1.32 |
| 580-50105C       | 50105C       | D    | 1.00   | 0.2                 | 700           | 0.3          | 1.55       | 1.43 | 1.32 |
| 580-50225C       | 50225C       | D    | 2.20   | 0.25                | 500           | 0.4          | 1.55       | 1.43 | 1.32 |
| 580-50475C       | 50475C       | D    | 4.70   | 0.4                 | 400           | 0.7          | 1.55       | 1.43 | 1.32 |

## TOROIDAL COMMON MODE CHOKES

- Toroidal construction
- UL94V-0 packaging materials
- Low DC resistance
- Through-hole
- Guaranteed 3.0mm creepage and clearance between windings
- RoHS Compliant

RoHS Compliant

For quantities of 25 and up, call for quote.

| MOUSER STOCK NO.   | MPS Part No. | Fig. | L (mH) | Leakage L Max. (μH) | IDC Max. (A) | RDC Max. (mΩ) | Price Each |      |      |
|--|--------------|------|--------|---------------------|--------------|---------------|------------|------|------|
|  |              |      |        |                     |              |               | 1          | 5    | 10   |
| <b>5100 Series</b> • Dimensions (mm): A-18, B-24, C-10   |              |      |        |                     |              |               |            |      |      |
| 580-51504C   | 51504C       | E    | 0.5    | 9.0                 | 4.1          | 27            | 2.72       | 2.66 | 2.59 |
| 580-51105C   | 51105C       | E    | 1.0    | 18                  | 3.3          | 38            | 2.72       | 2.66 | 2.59 |
| 580-51305C   | 51305C       | E    | 3.0    | 45                  | 1.9          | 97            | 2.72       | 2.66 | 2.59 |
| 580-51505C   | 51505C       | E    | 5.0    | 75                  | 1.2          | 197           | 2.72       | 2.66 | 2.59 |
| <b>5200 Series</b> • Dimensions (mm): A-24, B-31, C-16.3 |              |      |        |                     |              |               |            |      |      |
| 580-52305C   | 52305C       | E    | 3.0    | 40                  | 3.5          | 45            | 3.35       | 3.21 | 3.15 |
| 580-52505C   | 52505C       | E    | 5.0    | 75                  | 2.4          | 91            | 3.35       | 3.21 | 3.15 |
| 580-52705C   | 52705C       | E    | 7.0    | 90                  | 2.2          | 107           | 3.35       | 3.21 | 3.15 |
| 580-52106C   | 52106C       | E    | 10     | 130                 | 1.7          | 193           | 3.35       | 3.21 | 3.15 |

## 8400 SERIES MINIATURE SMD POWER INDUCTORS

- Small footprint
- Ultra-low profile
- UL94V-0 packaging materials
- J-STD-020C reflow
- RoHS Compliant

RoHS Compliant

For quantities of 25 and up, call for quote.

| MOUSER STOCK NO. | MPS Part No. | Fig. | L (μH) | IDC Max. (A) | RDC Max. (Ω) | Price Each |     |     |
|------------------|--------------|------|--------|--------------|--------------|------------|-----|-----|
|                  |              |      |        |              |              | 1          | 5   | 10  |
| 580-84102C       | 84102C       | F    | 1.0    | 2.8          | 0.08         | .36        | .35 | .33 |
| 580-84222C       | 84222C       | F    | 2.2    | 2.0          | 0.09         | .36        | .35 | .33 |
| 580-84682C       | 84682C       | F    | 6.8    | 1.05         | 0.2          | .36        | .35 | .33 |
| 580-84103C       | 84103C       | F    | 10     | 0.95         | 0.24         | .36        | .35 | .33 |
| 580-84333C       | 84333C       | F    | 33     | 0.55         | 0.86         | .36        | .35 | .33 |
| 580-84473C       | 84473C       | F    | 47     | 0.42         | 1.1          | .36        | .35 | .33 |
| 580-84104C       | 84104C       | F    | 100    | 0.3          | 2.0          | .36        | .35 | .33 |
| 580-84334C       | 84334C       | F    | 330    | 0.17         | 6.5          | .36        | .35 | .33 |
| 580-84474C       | 84474C       | F    | 470    | 0.14         | 8.5          | .36        | .35 | .33 |
| 580-84225C       | 84225C       | F    | 2200   | 0.05         |              |            |     |     |