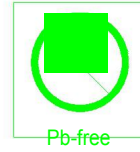


**Power Inductor**

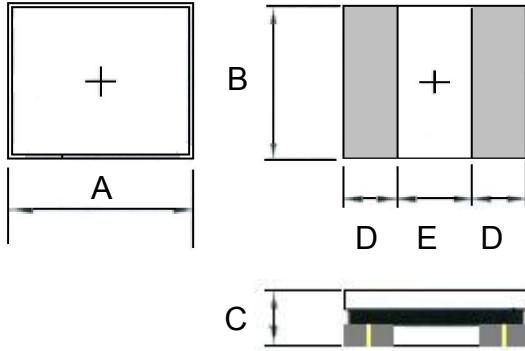
**SMDD201610TF-SERIES**

**1. Features**

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



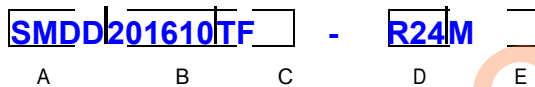
**2. Dimension**



| Series       | A(mm)         | B(mm)         | C(mm)  | D(mm)     | E(mm)     |
|--------------|---------------|---------------|--------|-----------|-----------|
| SMDD201610TF | 2.0 -0.1/+0.2 | 1.6 -0.1/+0.2 | 1.0Max | 0.60 ref. | 0.80 ref. |

Units: mm

**3. Part Numbering**



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

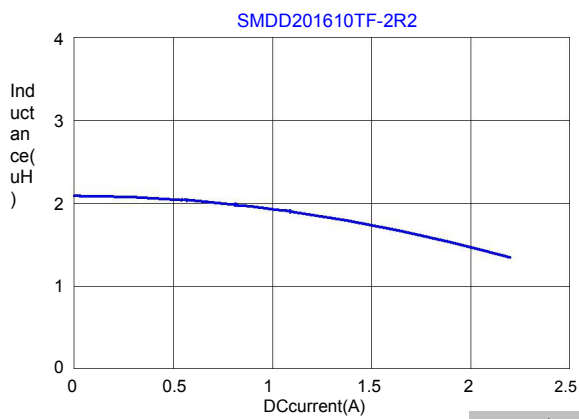
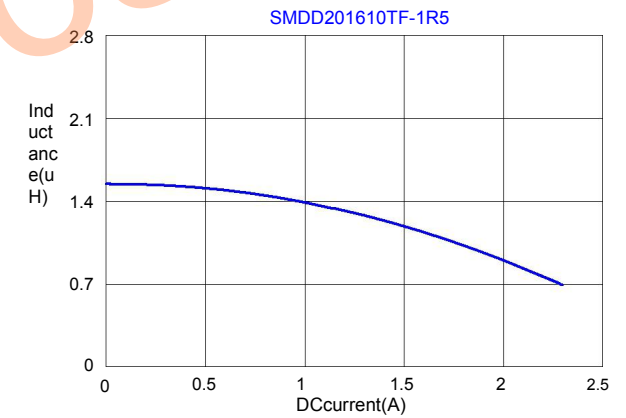
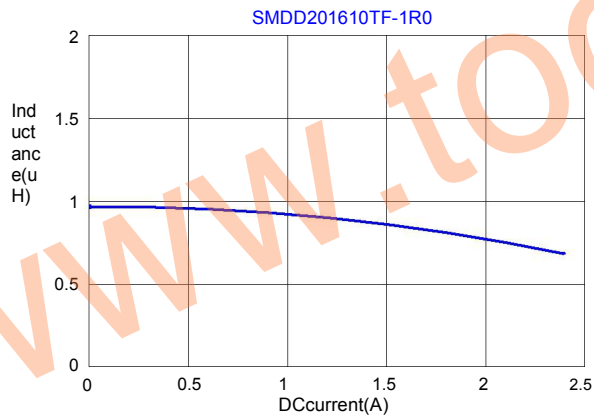
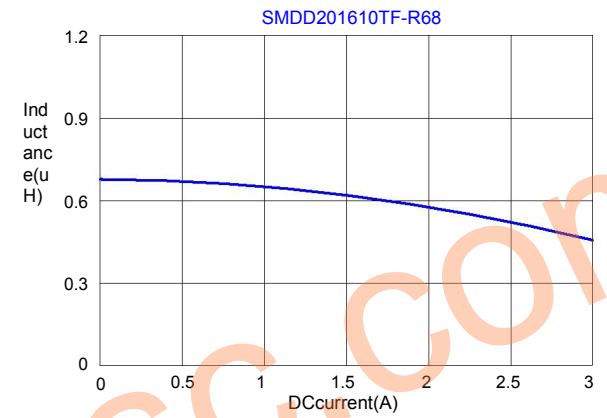
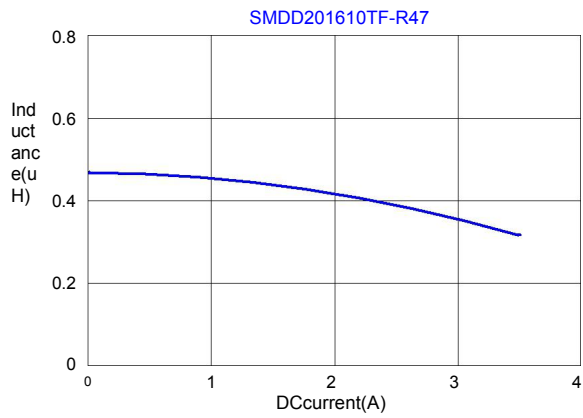
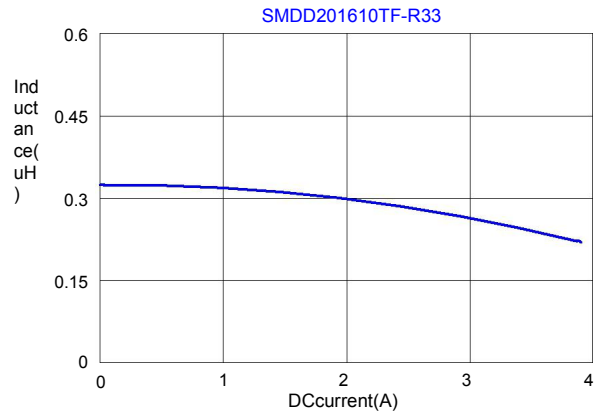
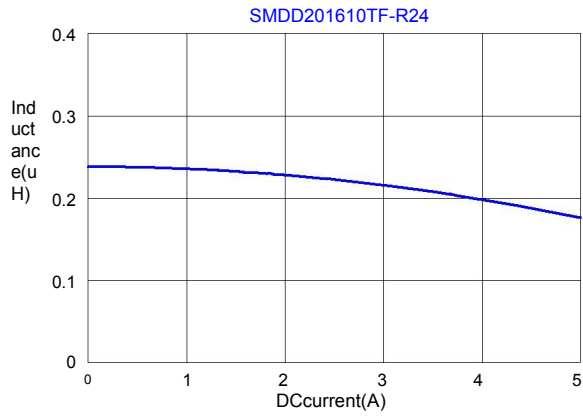
Material

R24=0.24uH

M=±20%

**4. Specification**

| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ | I rms (A) MAX |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|----------------|----------------|---------------|---------------|
| SMDD201610TF-R24M  | 0.24            | ±20%          | 0.1V/1M             | 0.023        | 0.028        | 5.10           | 4.50           | 4.40          | 3.90          |
| SMDD201610TF-R33M  | 0.33            | ±20%          | 0.1V/1M             | 0.031        | 0.040        | 3.90           | 3.50           | 3.50          | 3.10          |
| SMDD201610TF-R47M  | 0.47            | ±20%          | 0.1V/1M             | 0.035        | 0.042        | 3.85           | 3.40           | 3.30          | 3.00          |
| SMDD201610TF-R68M  | 0.68            | ±20%          | 0.1V/1M             | 0.046        | 0.055        | 3.25           | 2.80           | 2.80          | 2.50          |
| SMDD201610TF-1R0M  | 1.0             | ±20%          | 0.1V/1M             | 0.059        | 0.072        | 2.90           | 2.50           | 2.40          | 2.20          |
| SMDD201610TF-1R5M  | 1.5             | ±20%          | 0.1V/1M             | 0.098        | 0.118        | 2.30           | 1.80           | 2.10          | 1.80          |
| SMDD201610TF-2R2M  | 2.2             | ±20%          | 0.1V/1M             | 0.141        | 0.170        | 2.10           | 1.70           | 1.70          | 1.55          |

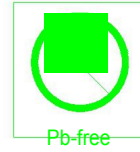


**Power Inductor**

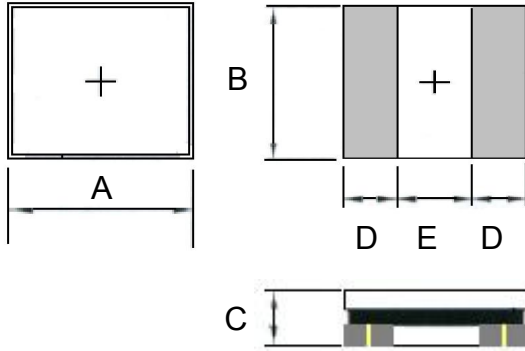
**SMDD201612NF-SERIES**

**1. Features**

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



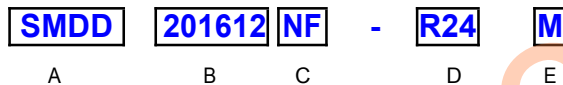
**2. Dimension**



| Series       | A(mm)         | B(mm)         | C(mm)    | D(mm)     | E(mm)     |
|--------------|---------------|---------------|----------|-----------|-----------|
| SMDD201612NF | 2.0 -0.1/+0.2 | 1.6 -0.1/+0.2 | 1.20Max. | 0.60 ref. | 0.80 ref. |

Units: mm

**3. Part Numbering**



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

Material

R24=0.24uH

M=±20%

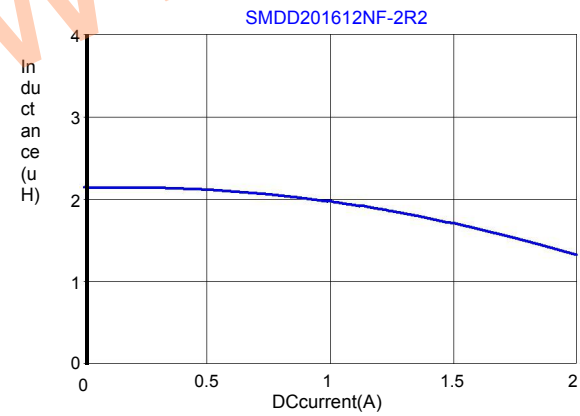
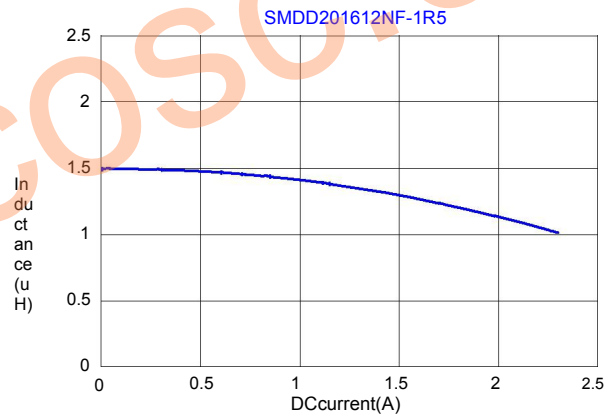
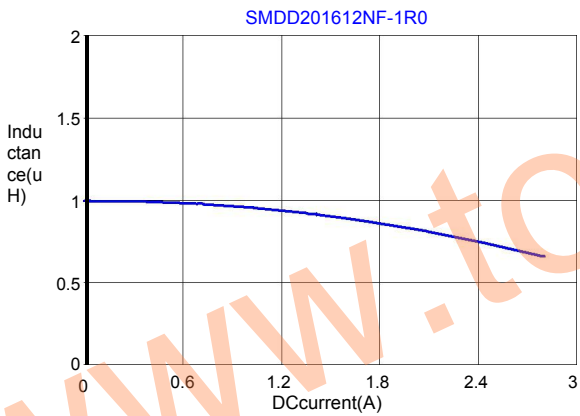
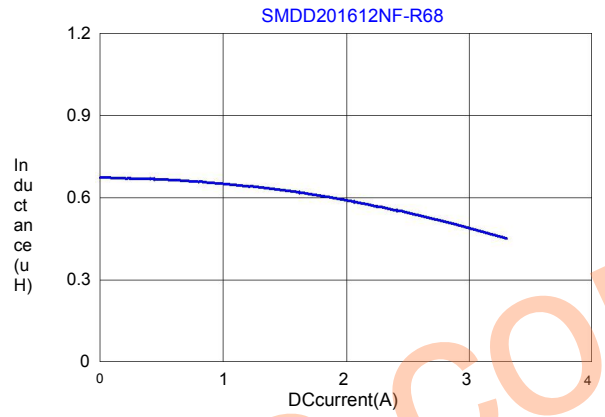
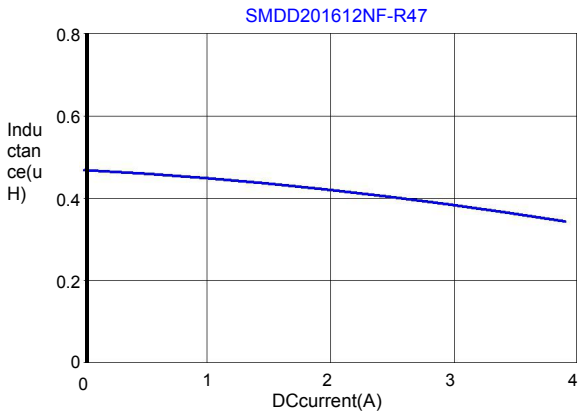
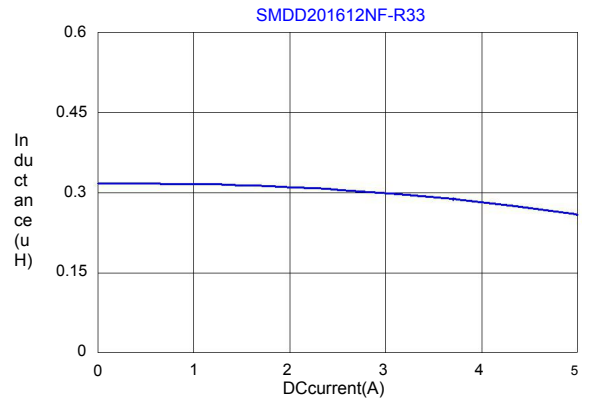
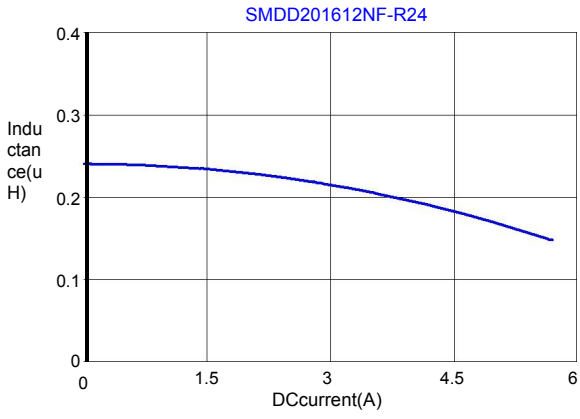
**4. Specification**

| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ | I rms (A) Max. |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|----------------|----------------|---------------|----------------|
| SMDD201612NF-R24M  | 0.24            | ±20%          | 0.1V/1M             | 0.025        | 0.033        | 5.40           | 4.80           | 4.00          | 3.50           |
| SMDD201612NF-R33M  | 0.33            | ±20%          | 0.1V/1M             | 0.027        | 0.034        | 4.70           | 3.90           | 3.90          | 3.20           |
| SMDD201612NF-R47M  | 0.47            | ±20%          | 0.1V/1M             | 0.035        | 0.046        | 3.90           | 3.50           | 3.30          | 2.90           |
| SMDD201612NF-R68M  | 0.68            | ±20%          | 0.1V/1M             | 0.055        | 0.066        | 3.30           | 2.80           | 3.00          | 2.60           |
| SMDD201612NF-1R0M  | 1.0             | ±20%          | 0.1V/1M             | 0.080        | 0.104        | 3.00           | 2.50           | 2.70          | 2.30           |
| SMDD201612NF-1R5M  | 1.5             | ±20%          | 0.1V/1M             | 0.090        | 0.108        | 2.50           | 2.00           | 2.10          | 1.80           |
| SMDD201612NF-2R2M  | 2.2             | ±20%          | 0.1V/1M             | 0.155        | 0.186        | 2.00           | 1.60           | 1.50          | 1.30           |

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C

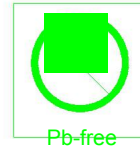
I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C.) Max



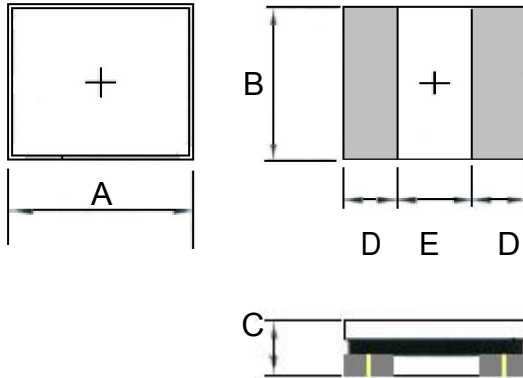
|                       |                            |
|-----------------------|----------------------------|
| <b>Power Inductor</b> | <b>SMDD252010BF-SERIES</b> |
|-----------------------|----------------------------|

**1. Features**

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



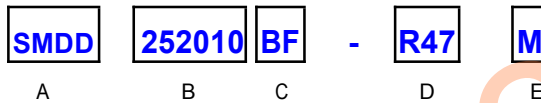
**2. Dimension**



| Series       | A(mm)         | B(mm)         | C(mm)  | D(mm)     | E(mm)     |
|--------------|---------------|---------------|--------|-----------|-----------|
| SMDD252010BF | 2.5 -0.1/+0.2 | 2.0 -0.1/+0.2 | 1.0Max | 0.85 ref. | 0.80 ref. |

Units: mm

**3. Part Numbering**



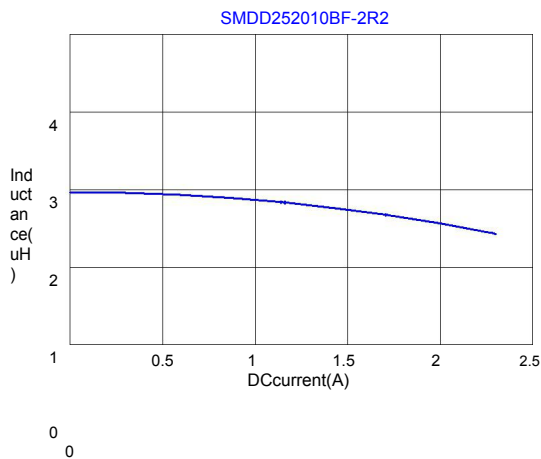
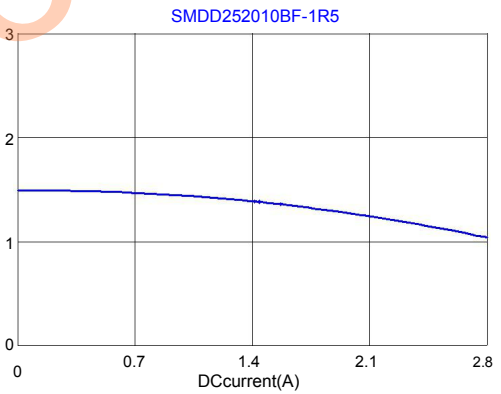
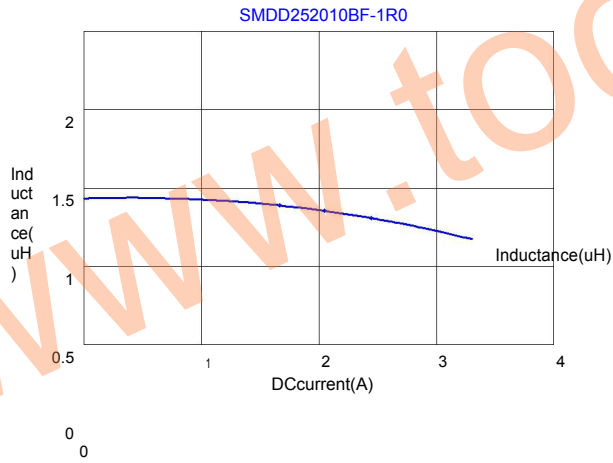
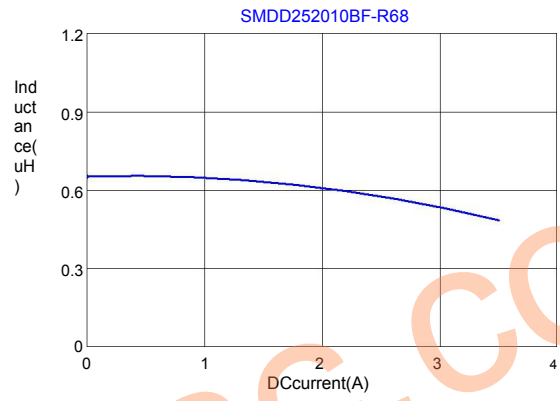
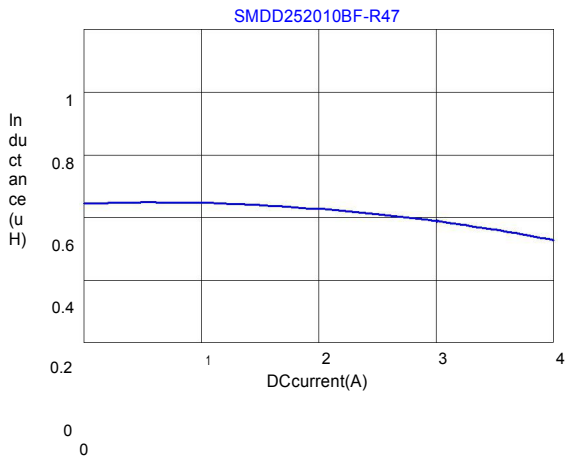
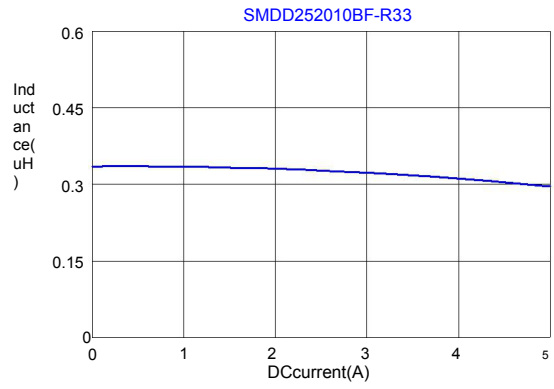
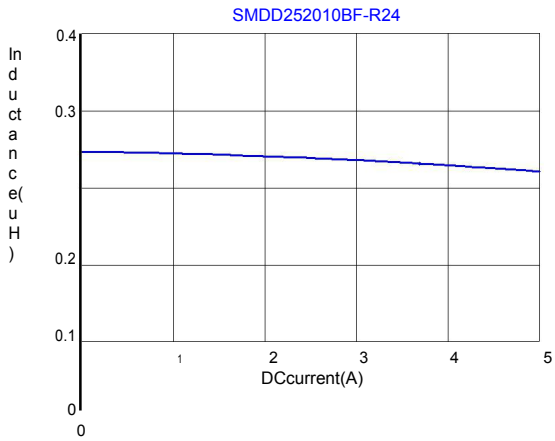
- A: Series
  - B: Dimension
  - C: Lead Free
  - D: Inductance
  - E: Inductance Tolerance
- Material  
R47=0.47uH  
M=±20%

**4. Specification**

| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ | I rms (A) Max. |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|----------------|----------------|---------------|----------------|
| SMDD252010BF-R24M  | 0.24            | ±20%          | 0.1V/1M             | 0.030        | 0.042        | 4.80           | 4.30           | 3.60          | 3.10           |
| SMDD252010BF-R33M  | 0.33            | ±20%          | 0.1V/1M             | 0.032        | 0.044        | 4.30           | 3.80           | 3.50          | 3.00           |
| SMDD252010BF-R47M  | 0.47            | ±20%          | 0.1V/1M             | 0.034        | 0.046        | 4.00           | 3.30           | 3.40          | 2.90           |
| SMDD252010BF-R68M  | 0.68            | ±20%          | 0.1V/1M             | 0.046        | 0.055        | 3.70           | 2.90           | 3.30          | 2.80           |
| SMDD252010BF-1R0M  | 1.0             | ±20%          | 0.1V/1M             | 0.060        | 0.080        | 3.40           | 2.70           | 2.60          | 2.2            |
| SMDD252010BF-1R5M  | 1.5             | ±20%          | 0.1V/1M             | 0.090        | 0.108        | 2.70           | 2.10           | 2.30          | 1.90           |
| SMDD252010BF-2R2M  | 2.2             | ±20%          | 0.1V/1M             | 0.130        | 0.169        | 2.40           | 1.90           | 1.80          | 1.50           |

Note:

- Isat : Based on inductance change ( $\Delta L/L0 : \leq 30\%$ ) @ ambient temp. 25°C
- Irms : Based on temperature rise ( $\Delta T : 40^\circ C$ .) Max

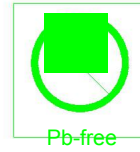


# Power Inductor

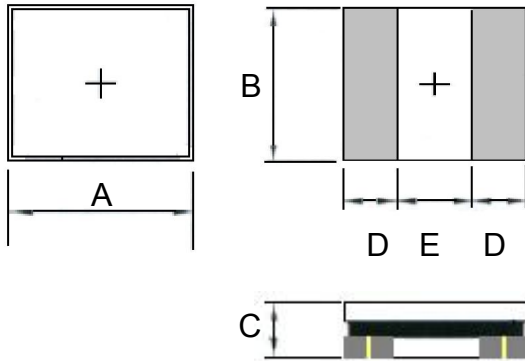
SMDD252012BF-SERIES

## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



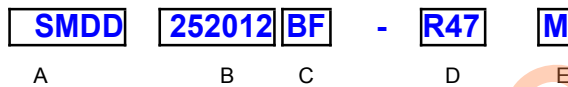
## 2. Dimension



| Series       | A(mm)         | B(mm)         | C(mm)  | D(mm)     | E(mm)     |
|--------------|---------------|---------------|--------|-----------|-----------|
| SMDD252012BF | 2.5 -0.1/+0.2 | 2.0 -0.1/+0.2 | 1.2Max | 0.85 ref. | 0.80 ref. |

Units: mm

## 3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

Material

R47=0.47uH

M=±20%

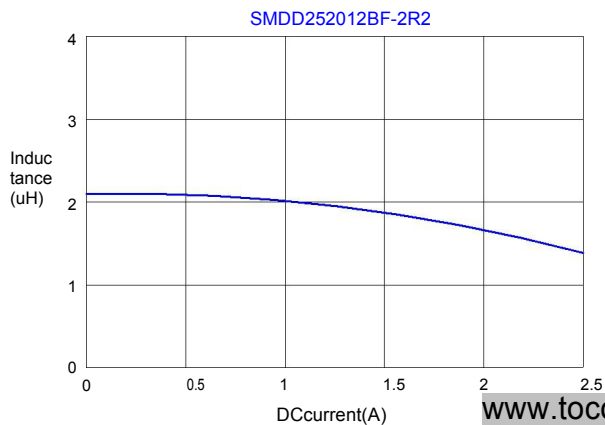
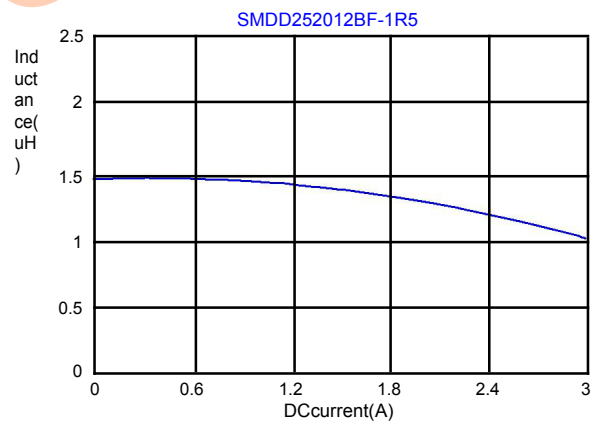
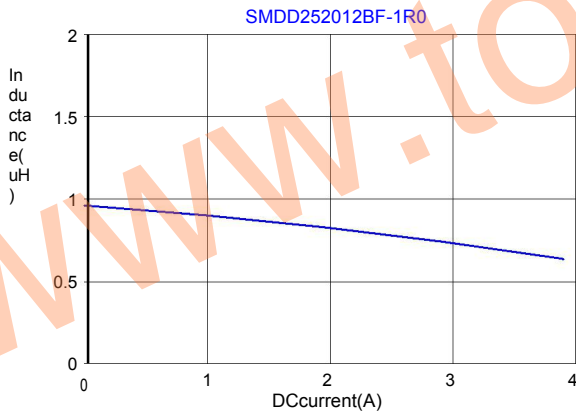
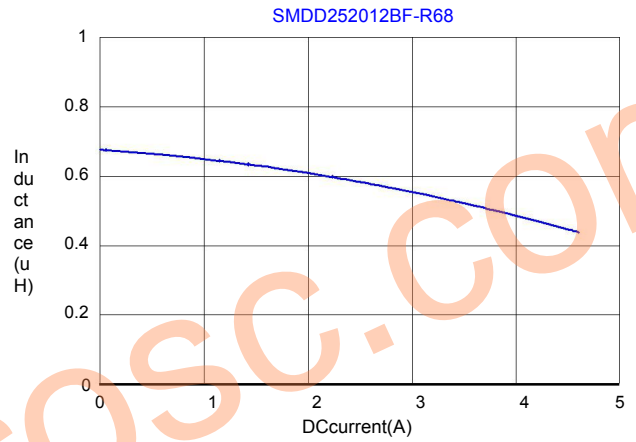
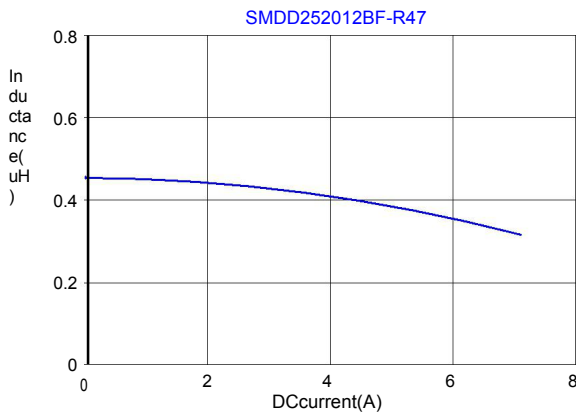
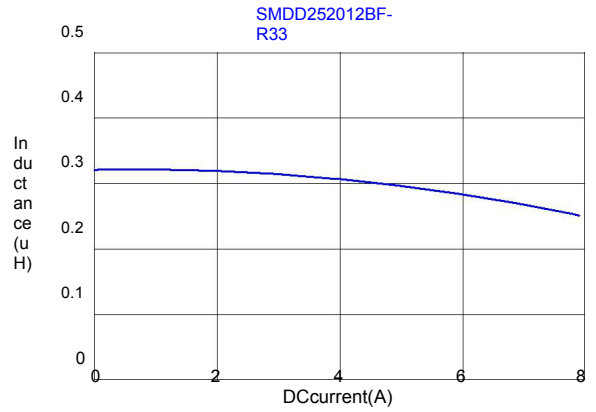
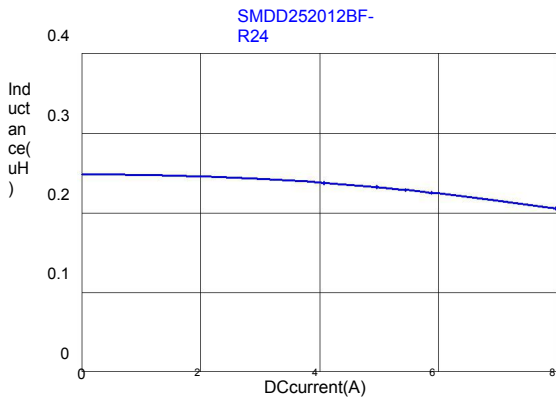
## 4. Specification

| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) Max. | I sat (A) typ. | I sat (A) Max. | I rms (A) typ |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|----------------|----------------|---------------|
| SMDD252012BF-R24M  | 0.24            | ±20%          | 0.1V/1M             | 0.024        | 0.028        | 8.00           | 6.50           | 4.70          |
| SMDD252012BF-R33M  | 0.33            | ±20%          | 0.1V/1M             | 0.027        | 0.032        | 5.70           | 4.60           | 4.50          |
| SMDD252012BF-R47M  | 0.47            | ±20%          | 0.1V/1M             | 0.027        | 0.032        | 5.50           | 4.50           | 4.40          |
| SMDD252012BF-R68M  | 0.68            | ±20%          | 0.1V/1M             | 0.036        | 0.043        | 4.50           | 3.80           | 3.60          |
| SMDD252012BF-1R0M  | 1.0             | ±20%          | 0.1V/1M             | 0.045        | 0.057        | 3.90           | 3.40           | 3.50          |
| SMDD252012BF-1R5M  | 1.5             | ±20%          | 0.1V/1M             | 0.080        | 0.096        | 3.00           | 2.60           | 2.50          |
| SMDD252012BF-2R2M  | 2.2             | ±20%          | 0.1V/1M             | 0.085        | 0.102        | 2.70           | 2.30           | 2.30          |

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C.) Max

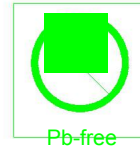




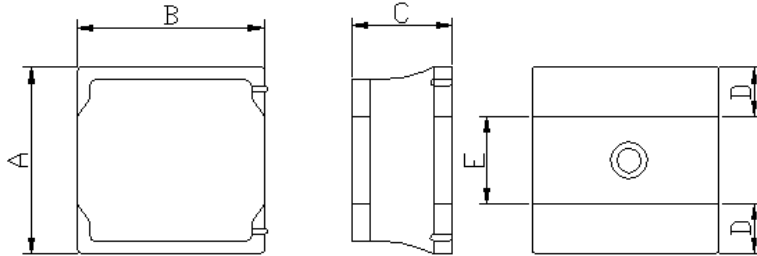
|                       |                          |
|-----------------------|--------------------------|
| <b>Power Inductor</b> | <b>SMDD3010EF-SERIES</b> |
|-----------------------|--------------------------|

**1. Features**

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



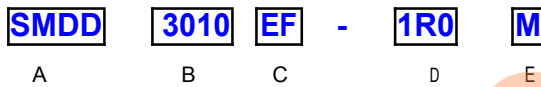
**2. Dimension**



| Series     | A(mm)   | B(mm)   | C(mm)   | D(mm)    | E(mm)    |
|------------|---------|---------|---------|----------|----------|
| SMDD3010EF | 3.0±0.2 | 3.0±0.2 | 1.0max. | 1.0 ref. | 1.0 ref. |

Units: mm

**3. Part Numbering**



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

1R0=1.0uH

M=±20%

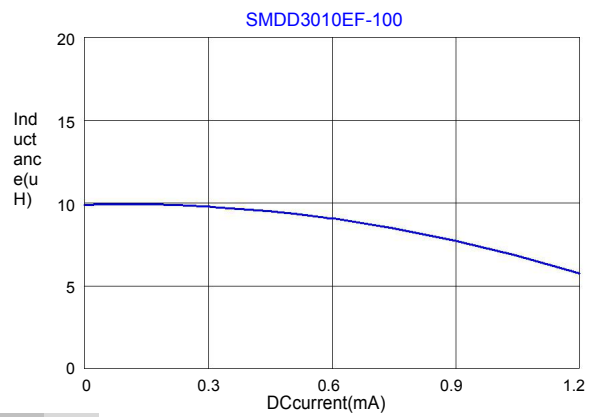
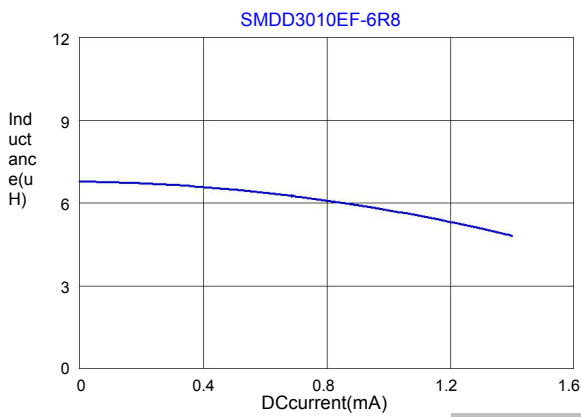
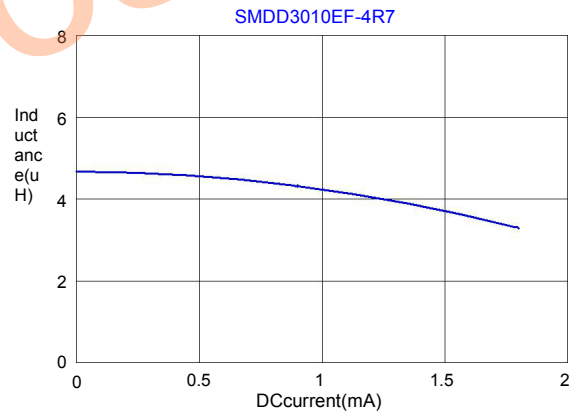
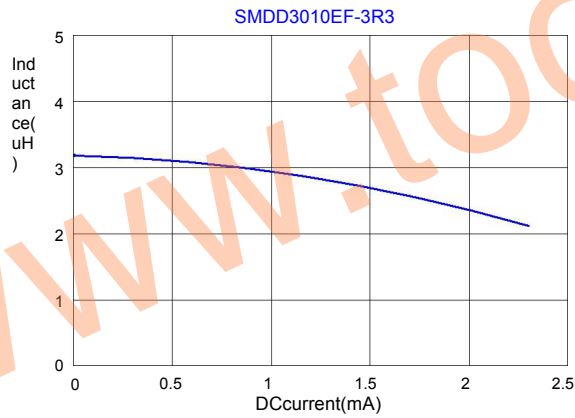
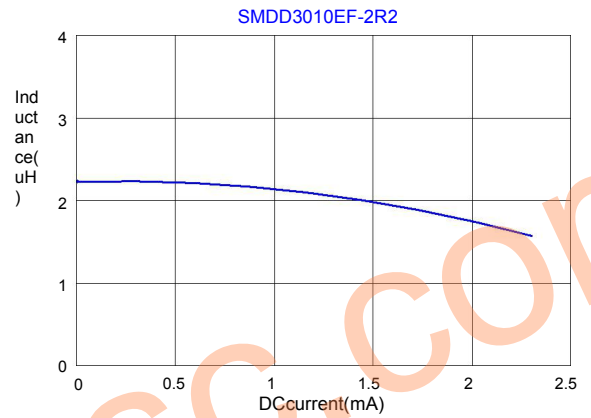
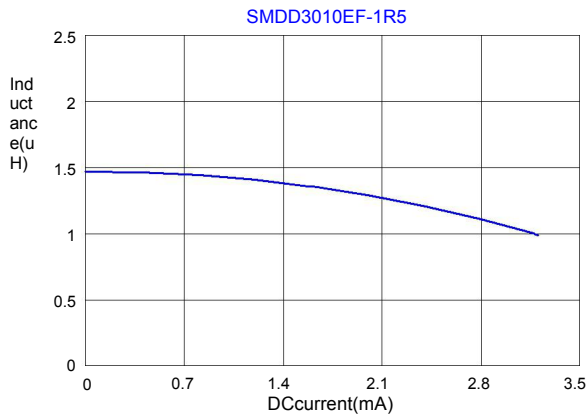
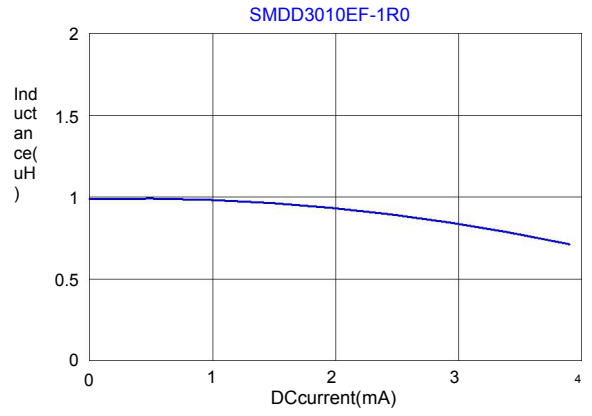
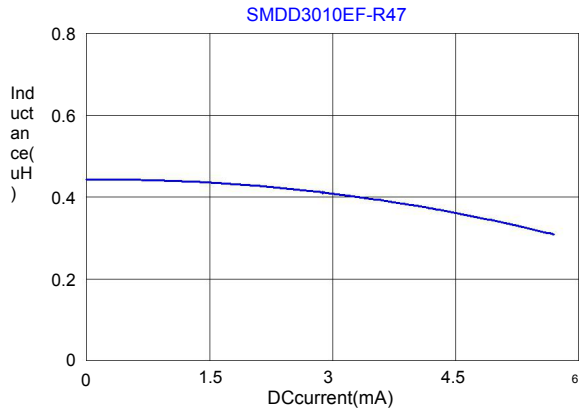
**4. Specification**

| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A) typ. | I rms (A) typ. |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|----------------|----------------|
| SMDD3010EF-R47M    | 0.47            | ±20%          | 1V/1M               | 0.038        | 0.045        | 5.40           | 4.10           |
| SMDD3010EF-1R0M    | 1.0             | ±20%          | 1V/1M               | 0.078        | 0.090        | 3.80           | 2.40           |
| SMDD3010EF-1R5M    | 1.5             | ±20%          | 1V/1M               | 0.095        | 0.110        | 3.10           | 2.10           |
| SMDD3010EF-2R2M    | 2.2             | ±20%          | 1V/1M               | 0.130        | 0.144        | 2.30           | 2.00           |
| SMDD3010EF-3R3M    | 3.3             | ±20%          | 1V/1M               | 0.200        | 0.230        | 2.10           | 1.30           |
| SMDD3010EF-4R7M    | 4.7             | ±20%          | 1V/1M               | 0.300        | 0.330        | 1.70           | 1.20           |
| SMDD3010EF-6R8M    | 6.8             | ±20%          | 1V/1M               | 0.435        | 0.470        | 1.30           | 1.10           |
| SMDD3010EF-100M    | 10              | ±20%          | 1V/1M               | 0.540        | 0.575        | 1.10           | 0.90           |

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C

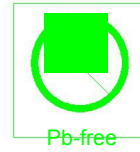
I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C.) Max



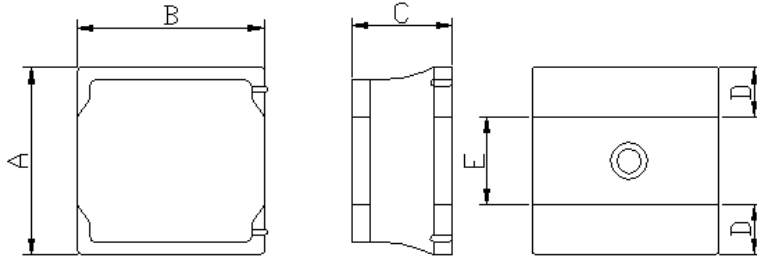
**Power Inductor** **SMDD3012EF-SERIES**

**1. Features**

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



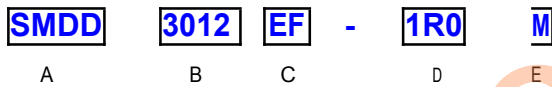
**2. Dimension**



| Series         | A(mm)   | B(mm)   | C(mm)    | D(mm)    | E(mm)    |
|----------------|---------|---------|----------|----------|----------|
| SMDD3012E<br>F | 3.0±0.2 | 3.0±0.2 | 1.2 max. | 1.0 ref. | 1.0 ref. |

Units: mm

**3. Part Numbering**



- A: Series  
 B: Dimension  
 C: Lead Free  
 D: Inductance                      1R0=1.0uH  
 E: Inductance Tolerance                      M=±20%

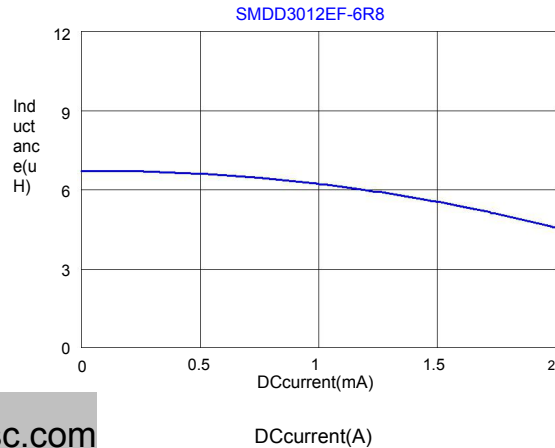
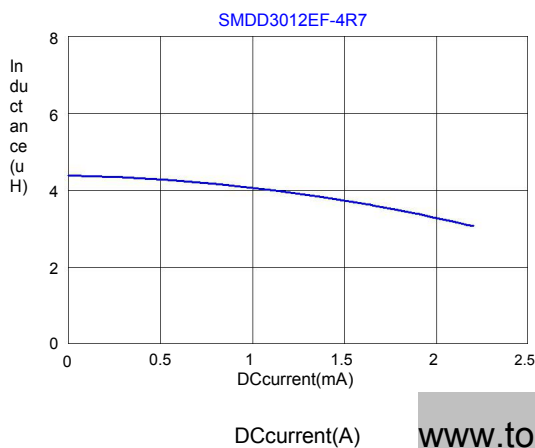
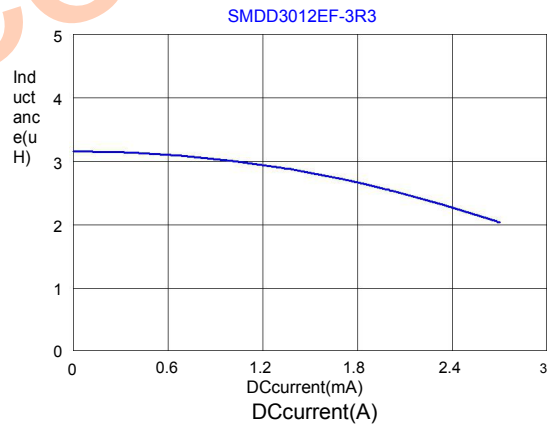
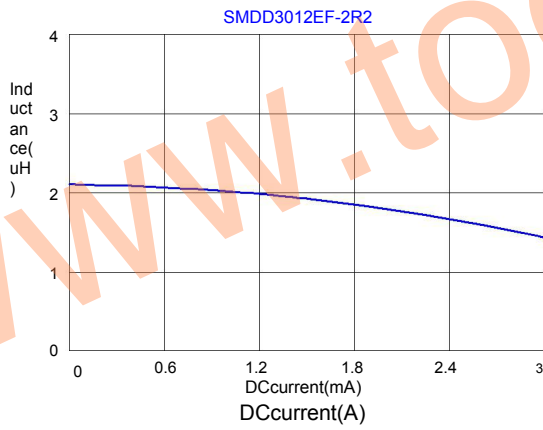
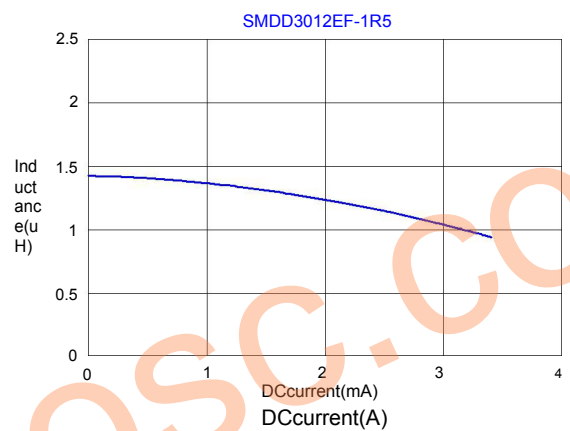
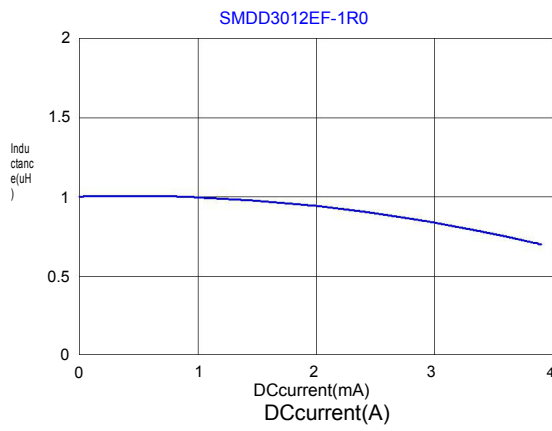
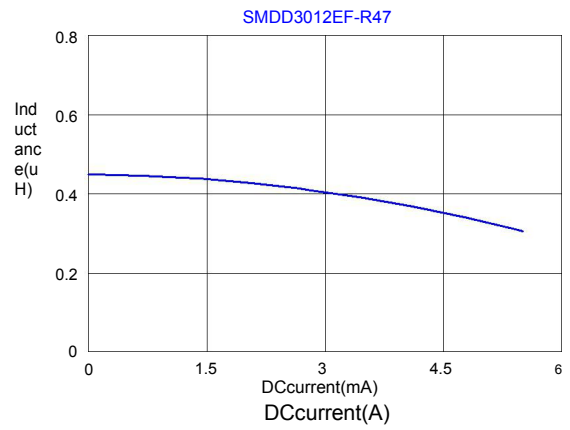
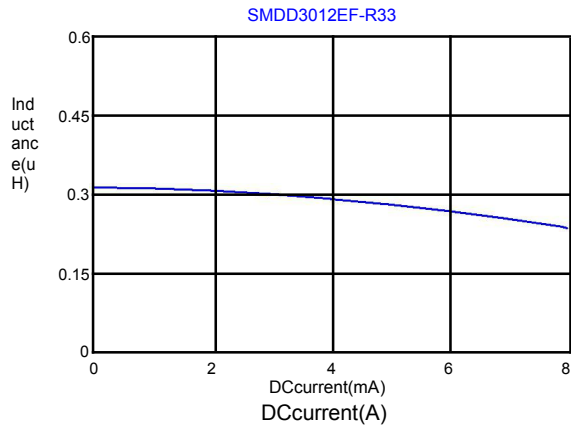
**4. Specification**

| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A) typ. | I rms (A) typ. |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|----------------|----------------|
| SMDD3012EF-R33M    | 0.33            | ±20%          | 1V/1M               | 0.030        | 0.036        | 8.00           | 4.20           |
| SMDD3012EF-R47M    | 0.47            | ±20%          | 1V/1M               | 0.031        | 0.037        | 5.40           | 4.10           |
| SMDD3012EF-1R0M    | 1.0             | ±20%          | 1V/1M               | 0.050        | 0.060        | 3.80           | 3.10           |
| SMDD3012EF-1R5M    | 1.5             | ±20%          | 1V/1M               | 0.070        | 0.084        | 3.30           | 2.60           |
| SMDD3012EF-2R2M    | 2.2             | ±20%          | 1V/1M               | 0.105        | 0.126        | 2.90           | 2.10           |
| SMDD3012EF-3R3M    | 3.3             | ±20%          | 1V/1M               | 0.170        | 0.204        | 2.60           | 1.70           |
| SMDD3012EF-4R7M    | 4.7             | ±20%          | 1V/1M               | 0.240        | 0.288        | 2.10           | 1.30           |
| SMDD3012EF-6R8M    | 6.8             | ±20%          | 1V/1M               | 0.340        | 0.408        | 1.90           | 1.20           |

Note:

I<sub>sat</sub> : Based on inductance change ( ΔL/L0 : ≤30% ) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise ( ΔT : 40°C. ) Max



# Power Inductor

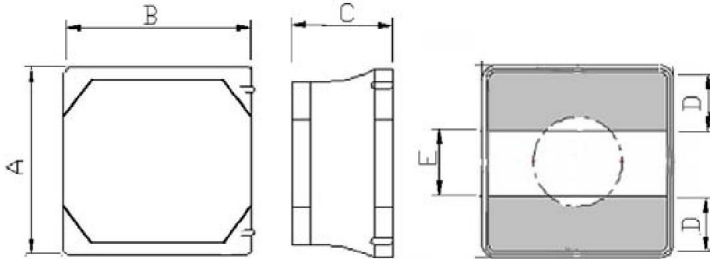
SMDD4010EF-SERIES

## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



## 2. Dimension



| Series     | A(mm)   | B(mm)   | C(mm)    | D(mm)    | E(mm)    |
|------------|---------|---------|----------|----------|----------|
| SMDD4010EF | 4.0±0.2 | 4.0±0.2 | 1.0 max. | 1.2 ref. | 1.6 ref. |

Units: mm

## 3. Part Numbering

SMDD
4010
EF
-
1R0
M

- A: Series  
 B: Dimension  
 C: Lead Free  
 D: Inductance  
 E: Inductance Tolerance

1R0=1.0uH  
 M=±20%

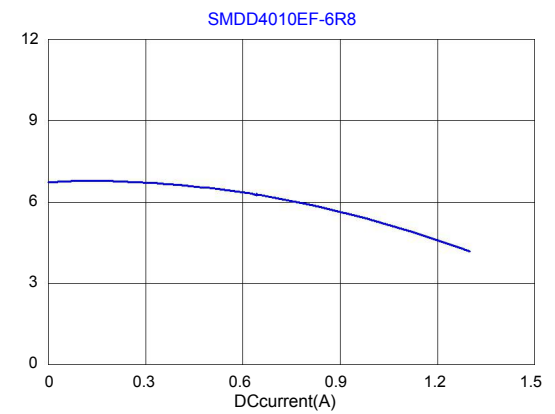
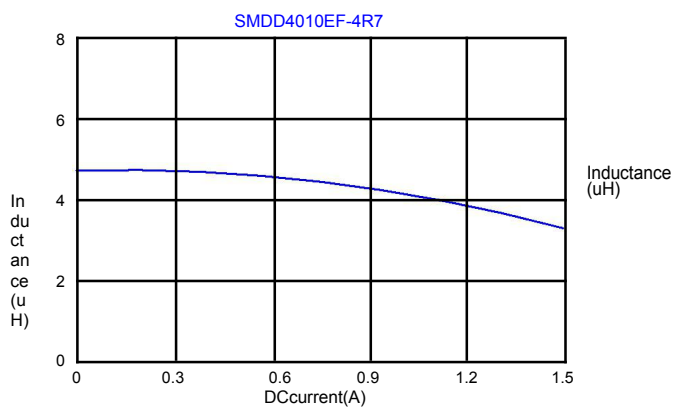
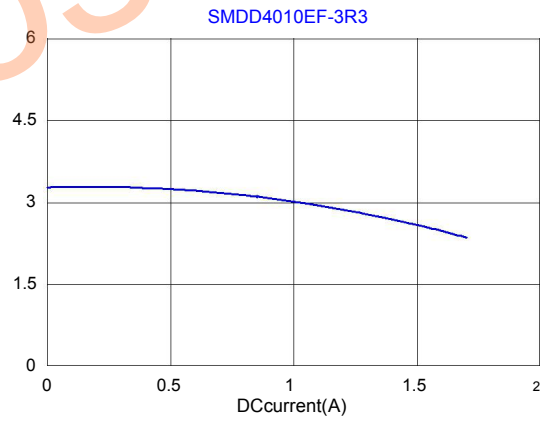
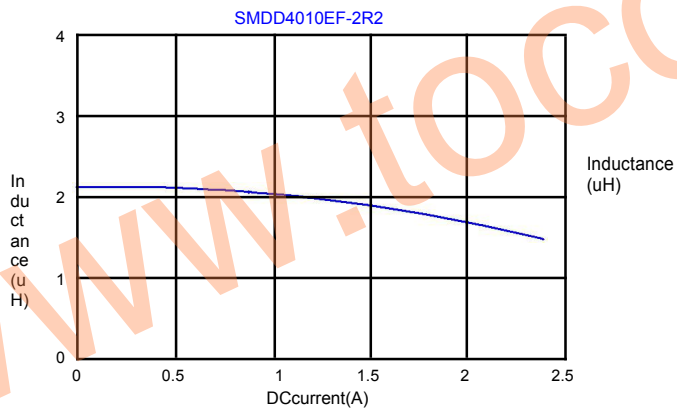
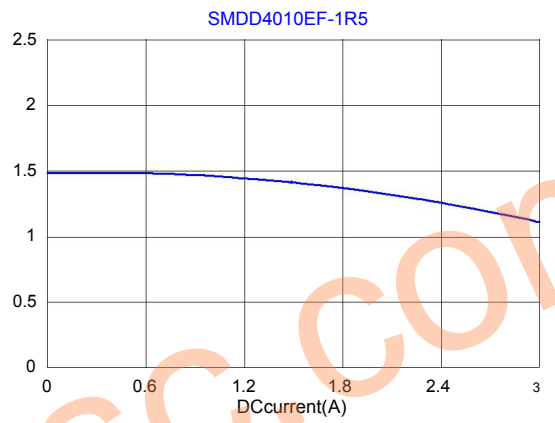
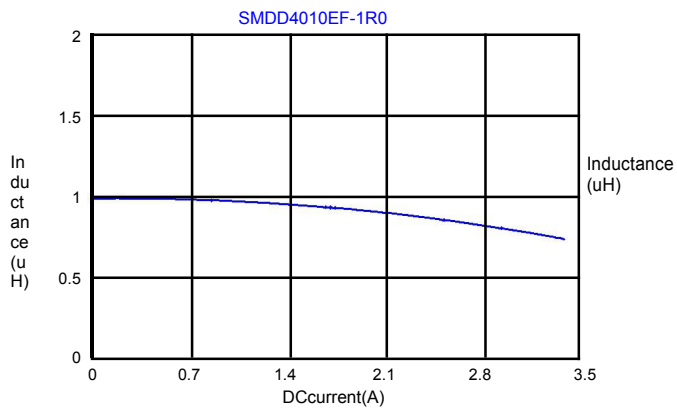
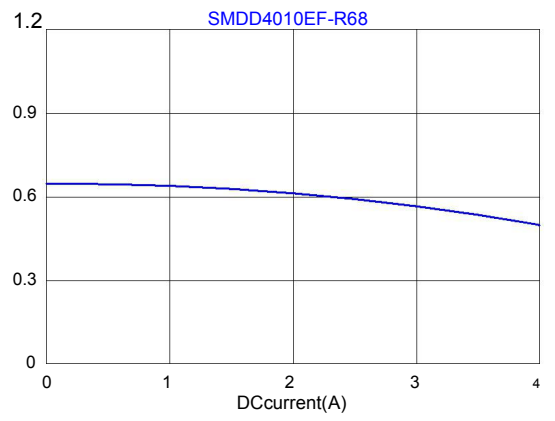
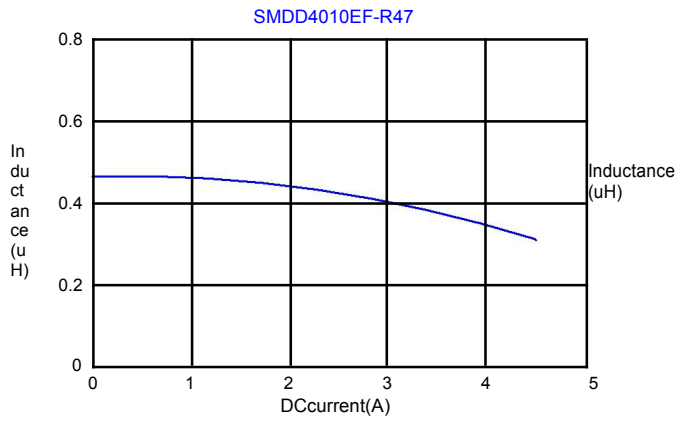
## 4. Specification

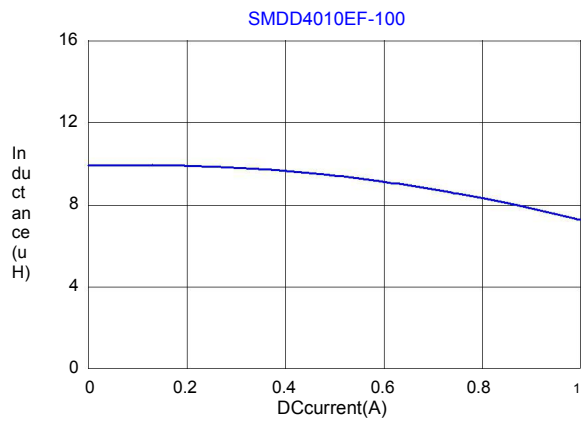
| TOCOET Part Number | Inductance (uH) | Tolerance (%) | Test Frequency (Hz) | DCR (Ω) typ. | DCR (Ω) max. | I sat (A)typ. | I rms (A)typ |
|--------------------|-----------------|---------------|---------------------|--------------|--------------|---------------|--------------|
| SMDD4010EF-R47M    | 0.47            | ±20%          | 1V100K              | 0.037        | 0.043        | 4.30          | 3.50         |
| SMDD4010EF-R68M    | 0.68            | ±20%          | 1V100K              | 0.044        | 0.053        | 3.70          | 3.00         |
| SMDD4010EF-1R0M    | 1.0             | ±20%          | 1V100K              | 0.055        | 0.065        | 3.30          | 2.40         |
| SMDD4010EF-1R5M    | 1.5             | ±20%          | 1V100K              | 0.078        | 0.090        | 2.80          | 2.30         |
| SMDD4010EF-2R2M    | 2.2             | ±20%          | 1V100K              | 0.080        | 0.095        | 2.30          | 2.00         |
| SMDD4010EF-3R3M    | 3.3             | ±20%          | 1V100K              | 0.095        | 0.110        | 1.60          | 1.80         |
| SMDD4010EF-4R7M    | 4.7             | ±20%          | 1V100K              | 0.135        | 0.150        | 1.40          | 1.60         |
| SMDD4010EF-6R8M    | 6.8             | ±20%          | 1V100K              | 0.200        | 0.220        | 1.20          | 1.30         |
| SMDD4010EF-100M    | 10              | ±20%          | 1V100K              | 0.290        | 0.320        | 1.00          | 1.10         |

Note:

I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C

I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.) max





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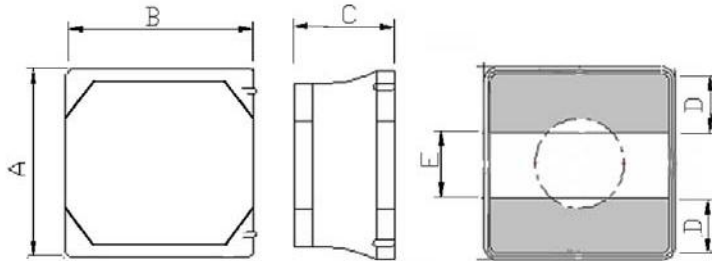
**Power Inductor** SMDD4012EF-SERIES

**1. Features**

- 1. This specification applies Low Profile Power Inductors.
- 2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



**2. Dimension**



| Series         | A(mm)   | B(mm)   | C(mm)    | D(mm)    | E(mm)    |
|----------------|---------|---------|----------|----------|----------|
| SMDD4012E<br>F | 4.0±0.2 | 4.0±0.2 | 1.2 max. | 1.2 ref. | 1.6 ref. |

Units: mm

**3. Part Numbering**



- A: Series
- B: Dimension
- C: Lead Free
- D: Inductance                      1R0=1.0uH
- E: Inductance Tolerance                      M=±20%

**4. Specification**

| TOCOET<br>Part Number | Inductance<br>(uH) | Tolerance<br>(%) | Test<br>Frequency<br>(Hz) | DCR<br>(Ω) typ. | DCR<br>(Ω) max. | I sat<br>(A)typ. | I rms<br>(A)typ. |
|-----------------------|--------------------|------------------|---------------------------|-----------------|-----------------|------------------|------------------|
| SMDD4012EF-R47M       | 0.47               | ±20%             | 1V100K                    | 0.026           | 0.031           | 5.10             | 3.80             |
| SMDD4012EF-1R0M       | 1.0                | ±20%             | 1V100K                    | 0.040           | 0.048           | 4.50             | 3.30             |
| SMDD4012EF-1R2M       | 1.2                | ±20%             | 1V100K                    | 0.048           | 0.057           | 3.80             | 3.10             |
| SMDD4012EF-1R5M       | 1.5                | ±20%             | 1V100K                    | 0.055           | 0.066           | 3.70             | 3.00             |
| SMDD4012EF-2R2M       | 2.2                | ±20%             | 1V100K                    | 0.080           | 0.096           | 3.20             | 2.20             |

Note:

- I<sub>sat</sub> : Based on inductance change (ΔL/L0 : ≤30%) @ ambient temp. 25°C
- I<sub>rms</sub> : Based on temperature rise (ΔT : 40°C typ.) max



