

SPECIFICATION FOR APPROVAL

CUSTOMER'S APPROVAL CHOP

Approval's condition: _____

Approved date: _____

KINDLY RETURN A SET WITH YOUR COMPANY'S OFFICIAL STAMP ON APPROVAL OF THIS ITEM

CUSTOMER'S NAME:

CUSTOMER'S MODEL NO. :

CUSTOMER'S PART NO. :

DESCRIPTION:

Molding Power Inductors

Semitel'S MODEL NO. :

SSMPC Series

VERSION:

A

DATE:

2025/12/10

Attachments:

- Product specification
- Sample Qty.:
- Test data

| Prepared By | Checked By | Approved By |
|-------------------------|-----------------------|--------------------------|
| Hebe Deng 2025/12/10 | Ben Lin 2025/12/10 | Eric Chang 2025/12/10 |

| | |
|-----------------------------|--|
| Semitel International Ltd., | TEL: 886-2-86922121 FAX: 886-2-26483379 |
| www.semitelint.com | 11F., No. 43-5, Zhongxing Rd., Xizhi Dist., New Taipei City 221012, Taiwan |

Product Specification

1. Features

- SSMPC Series High Current Shielded Power Inductors.
- Operating temperature : -55°C~ +125°C.
- Metal material for large current and low loss.
- High performance (Isat) realized by metal dust core.
- Low loss realized with low Rdc.
- Closed magnetic circuit design reduces leakage flux.
- Vinyl thermal spray, better surface compactness.
- 100% lead (Pb) free meet RoHS standard.

2. Applications

- DC/DC converters.
- Pad,Smart phone, Notebooks, VR, AR.
- Portable gaming devices, Smart wear, Wi-Fi module.
- Base band power supply, Amplifier, Power management,Module power supply, Camera power managememe
- LCD displays,HDD s,DVC s, DSC s,etc

3. Product Identification

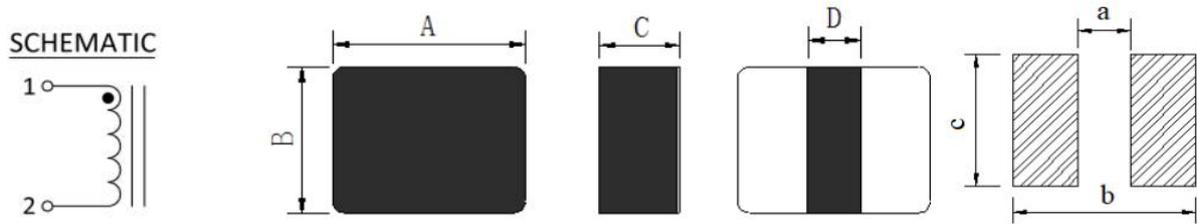
SSMPC 160808 - 1R0 M T
 ① ② ③ ④ ⑤

- ① Series name
- ② Product dimensions (160808:1.60X0.80X0.80 mm)
- ③ Inductance Value (1R0:1.00uH)
- ④ Inductance Tolerance (M= ± 20%)
- ⑤ Packing (Tape Carrier Package)

| | | | |
|------------------------------|---------------------|-------------------------------|--|
| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

Product Specification

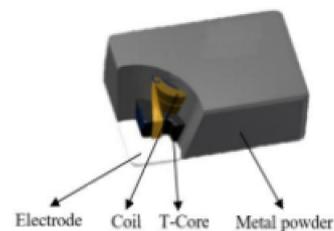
4. Physical Dimensions (Unit:mm)



| series | A | B | C | D | a | b | c |
|-------------|-----------|-----------|---------|-----------|---------|---------|---------|
| SSMPC160808 | 1.60±0.20 | 0.80±0.20 | 0.80MAX | 0.60±0.20 | 0.50TYP | 1.70TYP | 0.90TYP |
| SSMPC201210 | 2.00±0.20 | 1.20±0.20 | 1.00MAX | 0.60±0.20 | 0.50TYP | 2.10TYP | 1.30TYP |
| SSMPC201610 | 2.00±0.20 | 1.60±0.20 | 1.00MAX | 0.60±0.20 | 0.50TYP | 2.10TYP | 1.70TYP |
| SSMPC252010 | 2.50±0.20 | 2.00±0.20 | 1.00MAX | 0.80±0.20 | 0.70TYP | 2.60TYP | 2.10TYP |
| SSMPC252012 | 2.50±0.20 | 2.00±0.20 | 1.20MAX | 0.80±0.20 | 0.70TYP | 2.60TYP | 2.10TYP |
| SSMPC303015 | 3.00±0.20 | 3.00±0.20 | 1.50MAX | 0.90±0.20 | 0.80TYP | 3.00TYP | 3.00TYP |
| SSMPC303020 | 3.00±0.20 | 3.00±0.20 | 2.00MAX | 1.00±0.20 | 0.90TYP | 3.00TYP | 3.00TYP |
| SSMPC322510 | 3.20±0.20 | 2.50±0.20 | 1.00MAX | 1.00±0.20 | 0.90TYP | 3.20TYP | 2.50TYP |
| SSMPC322512 | 3.20±0.20 | 2.50±0.20 | 1.20MAX | 1.00±0.20 | 0.90TYP | 3.20TYP | 2.50TYP |
| SSMPC322520 | 3.20±0.20 | 2.5±0.20 | 2.00MAX | 1.10TYP | 1.00TYP | 3.20TYP | 2.50TYP |

5. Material list

| NO | Components | Material |
|----|------------|----------------------|
| 1 | Core | Carbonyl iron powder |
| 2 | Wire | Copper Wire |
| 3 | Coating | Resin |
| 4 | Solder | Cu/ Ni/ Sn |



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|-----------------------|--------------|------------------------|--|
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| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

7. Electrical Characteristics

SSMPC160808 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC160808-R22MT | 0.22 | 40 | 33 | 5.5 | 3.4 |
| SSMPC160808-R24MT | 0.24 | 41 | 34 | 5.3 | 3.3 |
| SSMPC160808-R47MT | 0.47 | 100 | 80 | 4.1 | 2.6 |
| SSMPC160808-R56MT | 0.56 | 110 | 85 | 4 | 2.2 |
| SSMPC160808-R68MT | 0.68 | 130 | 110 | 3.3 | 2.1 |
| SSMPC160808-1R0MT | 1 | 200 | 180 | 3 | 2.1 |
| SSMPC160808-1R5MT | 1.5 | 285 | 240 | 2.4 | 1.7 |
| SSMPC160808-2R2MT | 2.2 | 260 | 220 | 1.5 | 1.4 |
| SSMPC160808-3R3MT | 3.3 | 600 | 500 | 1.4 | 1 |
| SSMPC160808-4R7MT | 4.7 | 700 | 585 | 1.2 | 1 |

SSMPC201210 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC201210-R10MT | 0.1 | 13 | 8 | 8.5 | 7.5 |
| SSMPC201210-R22MT | 0.22 | 22 | 16 | 7.3 | 7.1 |
| SSMPC201210-R24MT | 0.24 | 23 | 17 | 7.2 | 7 |
| SSMPC201210-R33MT | 0.33 | 32 | 24 | 6.5 | 5.5 |
| SSMPC201210-R47MT | 0.47 | 36 | 29 | 5.5 | 4.7 |
| SSMPC201210-R68MT | 0.68 | 43 | 37 | 5 | 4.3 |
| SSMPC201210-1R0MT | 1 | 63 | 55 | 4 | 3.9 |
| SSMPC201210-1R5MT | 1.5 | 85 | 76 | 3.2 | 3.1 |
| SSMPC201210-2R2MT | 2.2 | 150 | 135 | 2.7 | 2 |
| SSMPC201210-3R3MT | 3.3 | 260 | 210 | 2.2 | 1.8 |
| SSMPC201210-4R7MT | 4.7 | 300 | 275 | 1.6 | 1.8 |
| SSMPC201210-6R8MT | 6.8 | 520 | 440 | 1.45 | 1.5 |

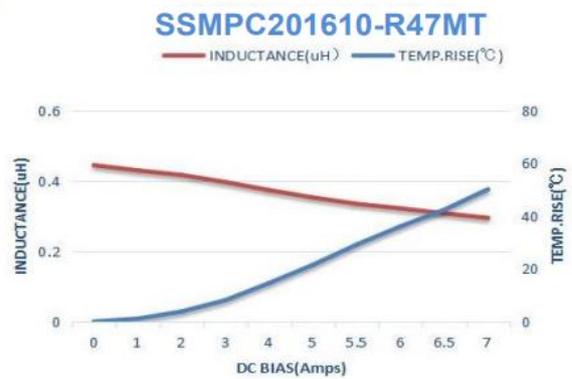
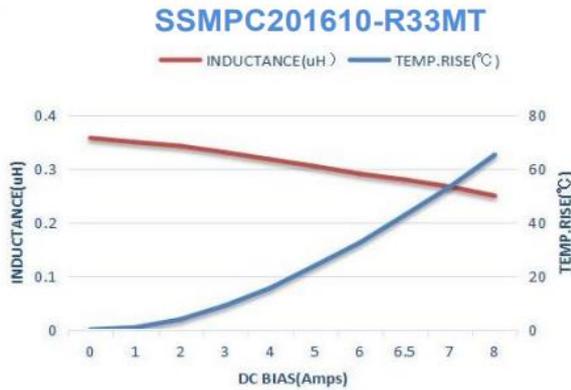
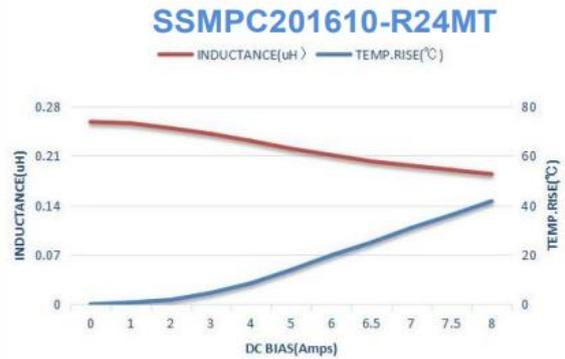
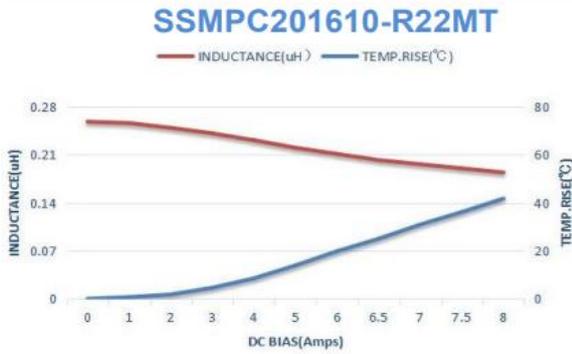
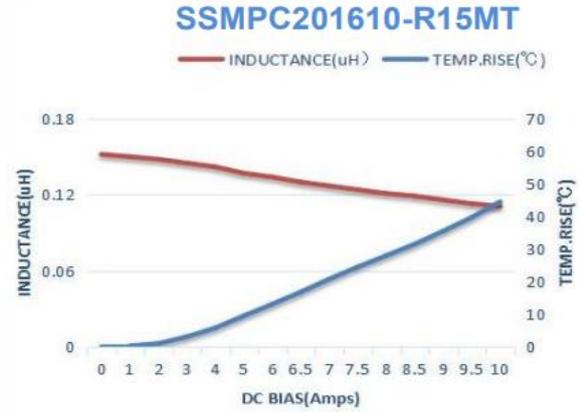
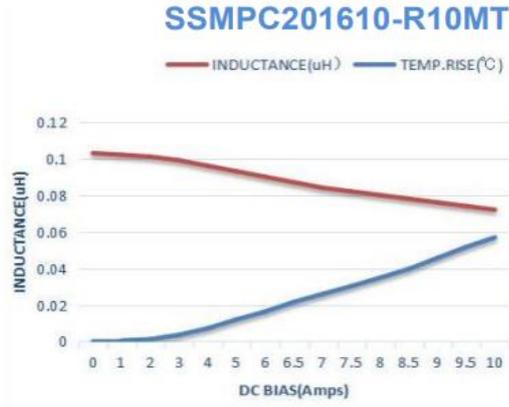
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|-----------------------|--------------|------------------------|--|
| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

SSMPC201610 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC201610-R10MT | 0.1 | 12 | 7 | 9 | 8.5 |
| SSMPC201610-R15MT | 0.15 | 14 | 8 | 8.7 | 7.6 |
| SSMPC201610-R22MT | 0.22 | 18 | 11 | 8.2 | 6.9 |
| SSMPC201610-R24MT | 0.24 | 19 | 12 | 8 | 6.8 |
| SSMPC201610-R33MT | 0.33 | 22 | 17 | 7 | 5.7 |
| SSMPC201610-R47MT | 0.47 | 25 | 22 | 6.3 | 5.5 |
| SSMPC201610-R56MT | 0.56 | 23 | 19 | 5.5 | 7.5 |
| SSMPC201610-R68MT | 0.68 | 32 | 25 | 5.2 | 4.6 |
| SSMPC201610-1R0MT | 1 | 43 | 35 | 4.6 | 4.5 |
| SSMPC201610-1R5MT | 1.5 | 100 | 80 | 3.2 | 2.6 |
| SSMPC201610-2R2MT | 2.2 | 125 | 115 | 3.3 | 2.5 |
| SSMPC201610-3R3MT | 3.3 | 170 | 140 | 2.3 | 1.7 |
| SSMPC201610-4R7MT | 4.7 | 276 | 250 | 1.9 | 1.6 |

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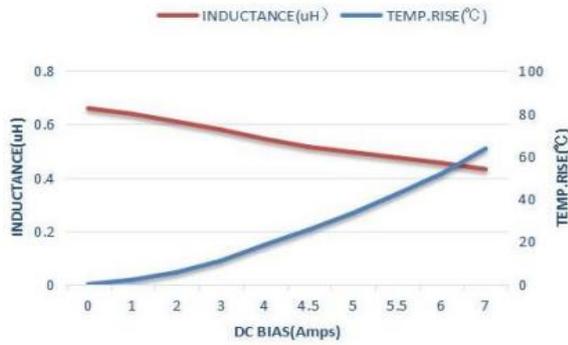
Product Specification



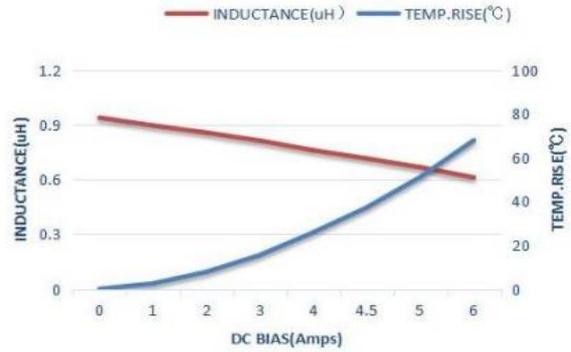
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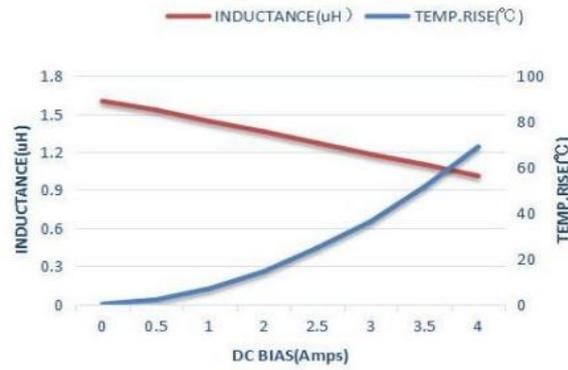
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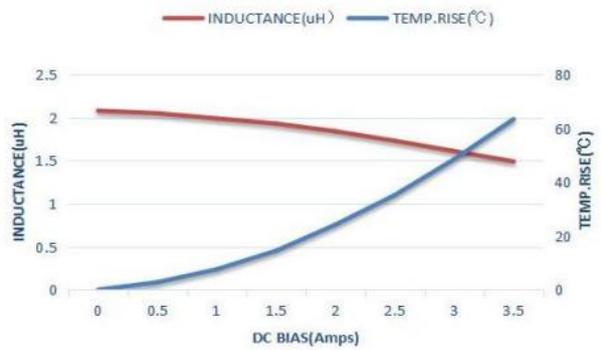
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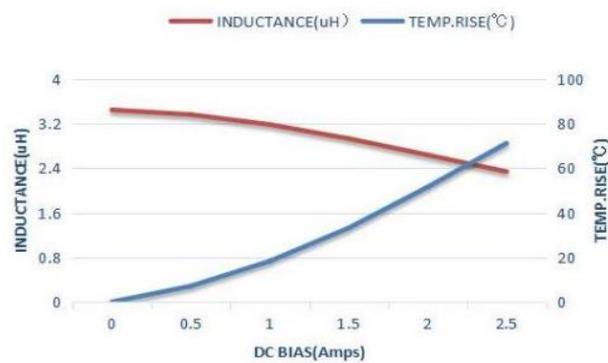
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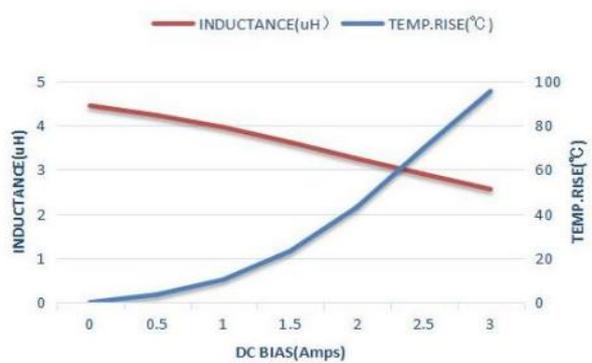
SSMPC201610-2R2MT



SSMPC201610-3R3MT



SSMPC201610-4R7MT



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| DATE: | 2025/12/10 | | |

SSMPC252010 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC252010-R22MT | 0.22 | 17 | 12 | 8.6 | 6.8 |
| SSMPC252010-R24MT | 0.24 | 17.5 | 12 | 8.5 | 6.7 |
| SSMPC252010-R33MT | 0.33 | 19 | 13 | 7.6 | 6.5 |
| SSMPC252010-R47MT | 0.47 | 22 | 15 | 7.2 | 6.1 |
| SSMPC252010-R68MT | 0.68 | 27 | 23 | 5.9 | 5.6 |
| SSMPC252010-R82MT | 0.82 | 29 | 25 | 5.3 | 4.5 |
| SSMPC252010-1R0MT | 1 | 30 | 25 | 5.4 | 4.7 |
| SSMPC252010-1R5MT | 1.5 | 55 | 45 | 4.3 | 3.4 |
| SSMPC252010-2R2MT | 2.2 | 70 | 62 | 3.3 | 2.4 |
| SSMPC252010-3R3MT | 3.3 | 100 | 86 | 2.8 | 2.5 |
| SSMPC252010-4R7MT | 4.7 | 180 | 160 | 2.6 | 2 |
| SSMPC252010-6R8MT | 6.8 | 320 | 270 | 2.4 | 1.6 |
| SSMPC252010-100MT | 10 | 560 | 500 | 1.55 | 1.05 |

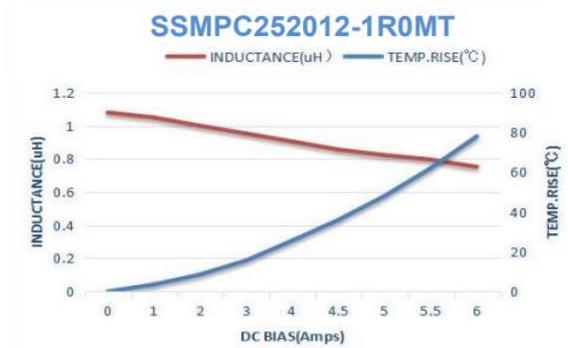
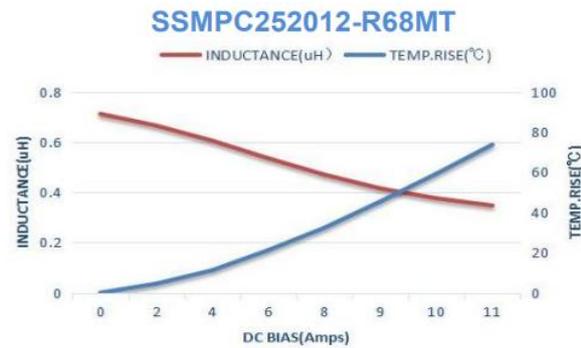
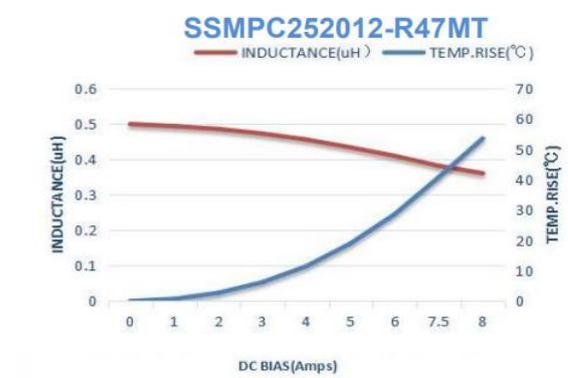
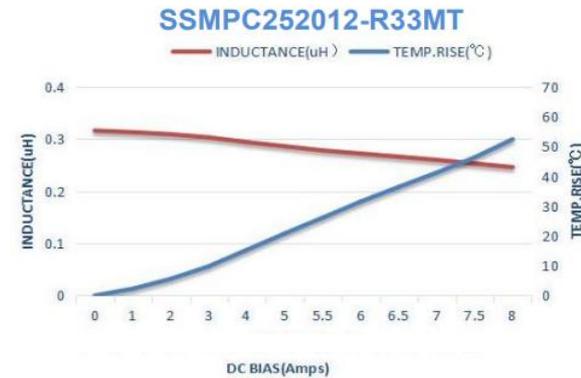
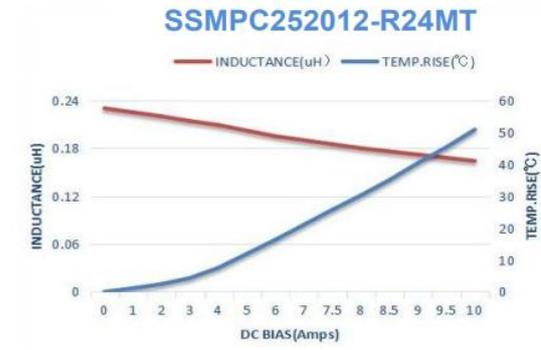
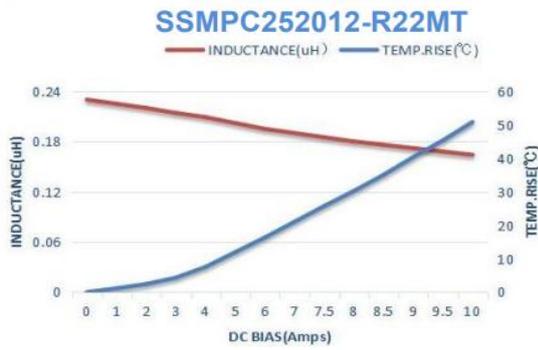
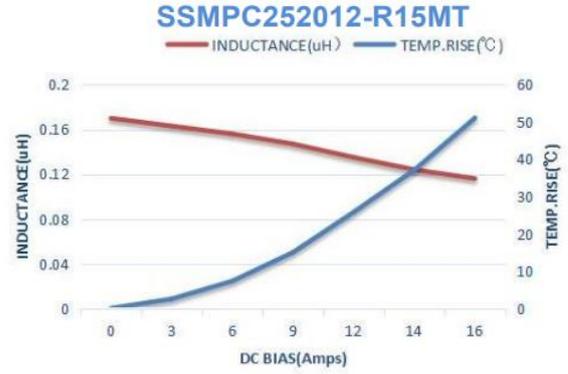
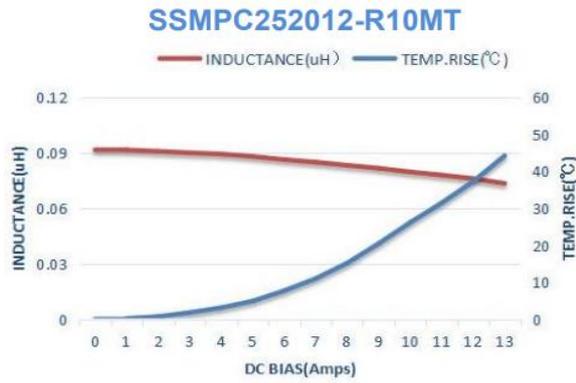
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| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

SSMPC252012 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------------------|-------------------|-----|--------------------|------------------------|
| | L (μ H) \pm 20% | DCR (m Ω) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC252012-R10MT | 0.1 | 10 | 6 | 13.5 | 12 |
| SSMPC252012-R15MT | 0.15 | 11 | 7 | 13 | 11.5 |
| SSMPC252012-R22MT | 0.22 | 14 | 9 | 9.6 | 8.2 |
| SSMPC252012-R24MT | 0.24 | 15 | 10 | 9.3 | 8 |
| SSMPC252012-R33MT | 0.33 | 17 | 11 | 8.3 | 6.8 |
| SSMPC252012-R47MT | 0.47 | 19 | 13 | 7.5 | 6.5 |
| SSMPC252012-R68MT | 0.68 | 23 | 17 | 6.5 | 6.3 |
| SSMPC252012-R82MT | 0.82 | 24 | 19 | 6.5 | 5.8 |
| SSMPC252012-1R0MT | 1 | 42 | 35 | 5.6 | 4 |
| SSMPC252012-1R2MT | 1.2 | 45 | 40 | 4.5 | 3.8 |
| SSMPC252012-1R5MT | 1.5 | 50 | 44 | 4.5 | 3.7 |
| SSMPC252012-2R2MT | 2.2 | 65 | 55 | 3.8 | 3 |
| SSMPC252012-3R3MT | 3.3 | 97 | 80 | 3 | 2.3 |
| SSMPC252012-4R7MT | 4.7 | 170 | 150 | 2.4 | 1.8 |
| SSMPC252012-6R8MT | 6.8 | 270 | 245 | 2 | 1.6 |
| SSMPC252012-100MT | 10 | 400 | 330 | 1.6 | 1.2 |
| SSMPC252012-150MT | 15 | 800 | 740 | 1.1 | 1.2 |

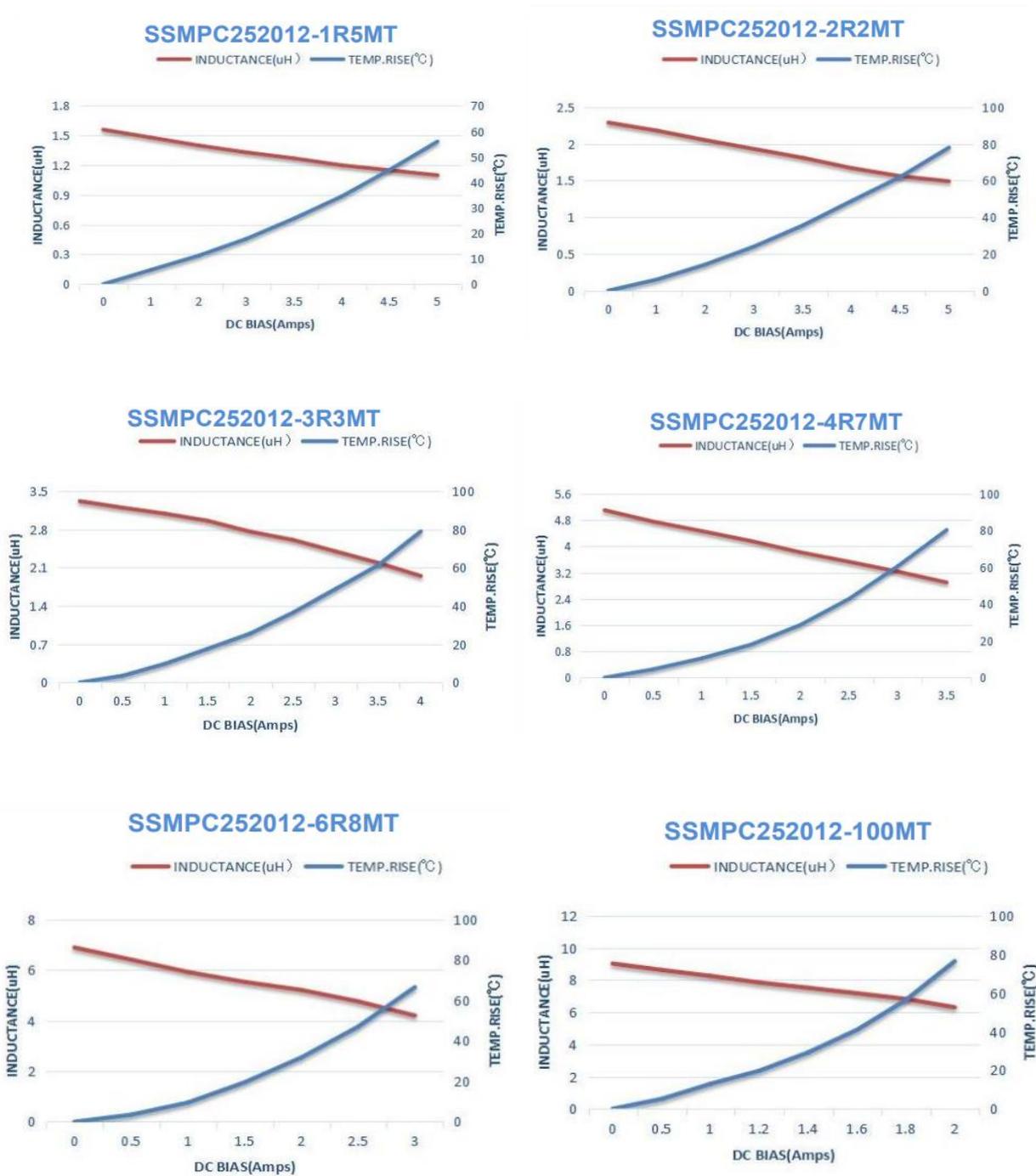
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| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
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| DATE: | 2025/12/10 | | |

SSMPC303015 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC303015-R15MT | 0.15 | 6 | 5 | 16 | 12 |
| SSMPC303015-R47MT | 0.47 | 11 | 9 | 10 | 9 |
| SSMPC303015-1R0MT | 1 | 22 | 18 | 7 | 6 |
| SSMPC303015-1R5MT | 1.5 | 26 | 22 | 6 | 8 |
| SSMPC303015-2R2MT | 2.2 | 50 | 42 | 5 | 4.5 |
| SSMPC303015-4R7MT | 4.7 | 104 | 87 | 4 | 3.5 |
| SSMPC303015-6R8MT | 6.8 | 180 | 160 | 3.5 | 2.5 |
| SSMPC303015-100MT | 10 | 215 | 185 | 2.8 | 2 |
| SSMPC303015-220MT | 22 | 700 | 580 | 1.6 | 1.2 |

SSMPC303020 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC303020-R15MT | 0.15 | 5 | 4 | 18 | 13 |
| SSMPC303020-R33MT | 0.33 | 9 | 7.5 | 17 | 10 |
| SSMPC303020-R47MT | 0.47 | 11 | 8 | 15 | 9 |
| SSMPC303020-R68MT | 0.68 | 16 | 13 | 13 | 8.5 |
| SSMPC303020-1R0MT | 1 | 20 | 14 | 8 | 6.5 |
| SSMPC303020-1R5MT | 1.5 | 25 | 19 | 7 | 6.3 |
| SSMPC303020-2R2MT | 2.2 | 45 | 37 | 6 | 4.7 |
| SSMPC303020-3R3MT | 3.3 | 63 | 52 | 5.9 | 4.5 |
| SSMPC303020-4R7MT | 4.7 | 73 | 60 | 4.8 | 4.2 |
| SSMPC303020-6R8MT | 6 | 135 | 107 | 4.5 | 3.2 |
| SSMPC303020-100MT | 10 | 160 | 135 | 3.8 | 2.5 |
| SSMPC303020-150MT | 15 | 260 | 235 | 2.6 | 1.8 |

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| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
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SSMPC322510 series

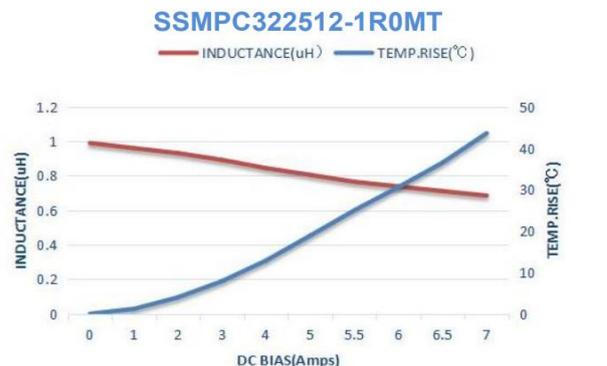
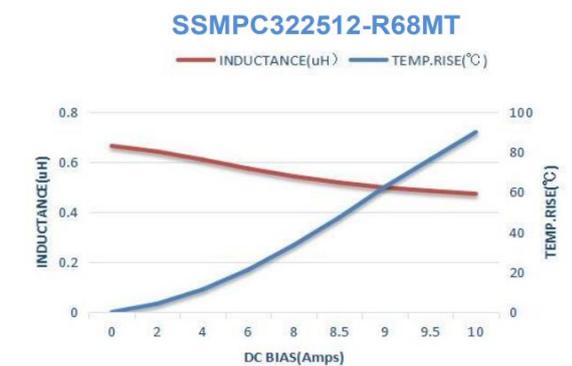
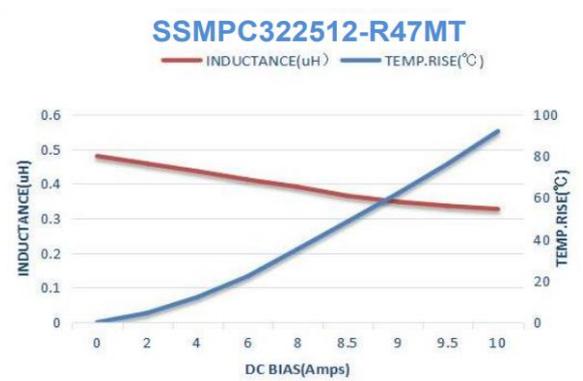
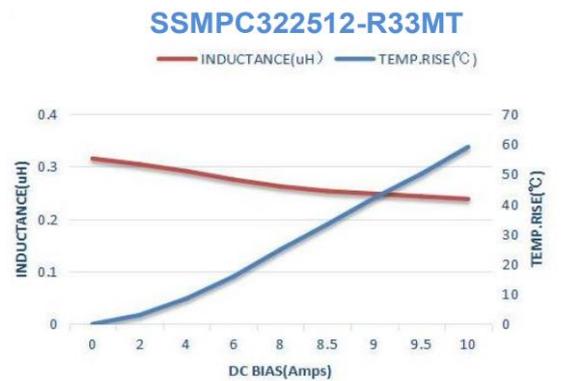
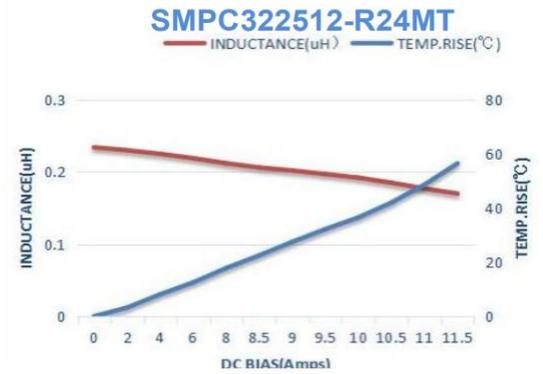
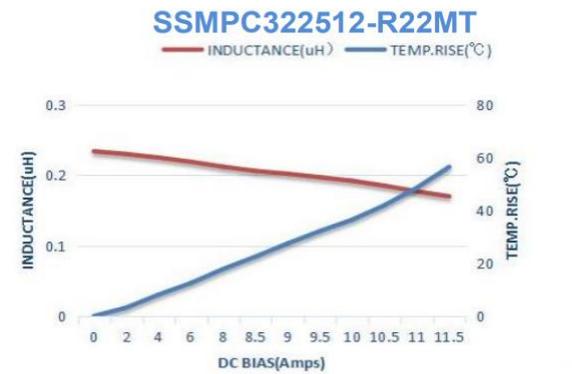
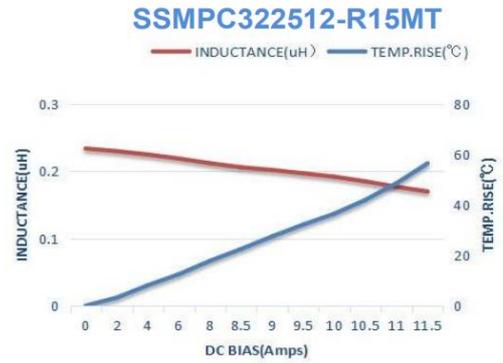
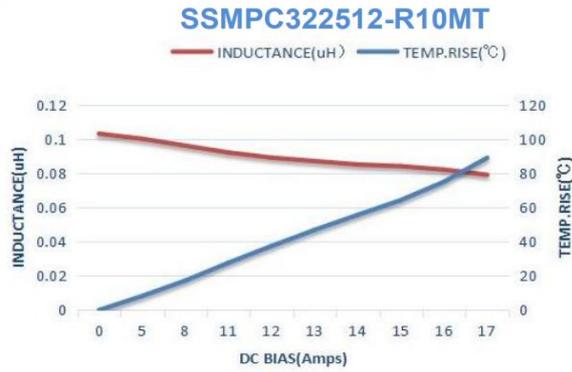
| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC322510-R22MT | 0.22 | 11 | 9 | 8.5 | 8.5 |
| SSMPC322510-R33MT | 0.33 | 15 | 11 | 8.3 | 8.3 |
| SSMPC322510-R47MT | 0.47 | 22 | 17 | 8.3 | 6.4 |
| SSMPC322510-R68MT | 0.68 | 28 | 22 | 7.5 | 6.2 |
| SSMPC322510-1R0MT | 1 | 30 | 25 | 6 | 5.4 |
| SSMPC322510-1R5MT | 1.5 | 42 | 34 | 5 | 4 |
| SSMPC322510-2R2MT | 2.2 | 66 | 55 | 4 | 3.7 |
| SSMPC322510-3R3MT | 3.3 | 120 | 105 | 3.7 | 2.7 |
| SSMPC322510-4R7MT | 4.7 | 140 | 125 | 2.8 | 2.3 |
| SSMPC322510-6R8MT | 6.8 | 320 | 290 | 2.4 | 1.9 |
| SSMPC322510-100MT | 100 | 365 | 325 | 2.2 | 2.2 |

SSMPC322512 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|-----|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC322512-R10MT | 0.1 | 7 | 5.2 | 18 | 12 |
| SSMPC322512-R22MT | 0.22 | 10 | 6.6 | 11.5 | 9.2 |
| SSMPC322512-R24MT | 0.24 | 12 | 7 | 11 | 9 |
| SSMPC322512-R33MT | 0.33 | 14 | 9 | 10 | 8.4 |
| SSMPC322512-R47MT | 0.47 | 19 | 14 | 8.6 | 7.5 |
| SSMPC322512-R68MT | 0.68 | 23 | 18 | 8.1 | 7.3 |
| SSMPC322512-1R0MT | 1 | 30 | 26 | 6.6 | 5.3 |
| SSMPC322512-1R5MT | 1.5 | 44 | 37 | 5.1 | 4.7 |
| SSMPC322512-2R2MT | 2.2 | 70 | 58 | 4.6 | 3.6 |
| SSMPC322512-3R3MT | 3.3 | 95 | 75 | 3.7 | 2.9 |
| SSMPC322512-4R7MT | 4.7 | 135 | 115 | 2.9 | 2.3 |
| SSMPC322512-6R8MT | 6.8 | 210 | 177 | 2.8 | 2.1 |
| SSMPC322512-100MT | 10 | 230 | 210 | 2.3 | 2.2 |

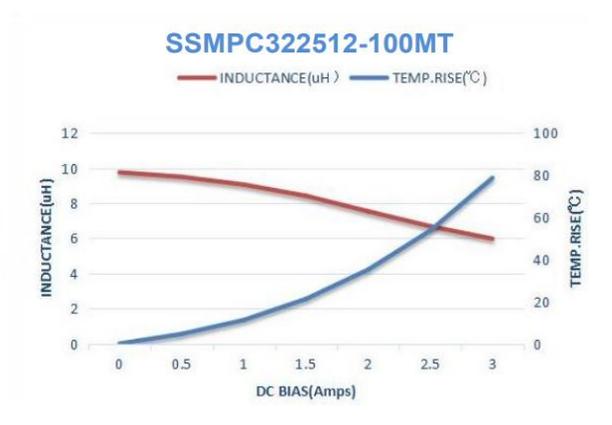
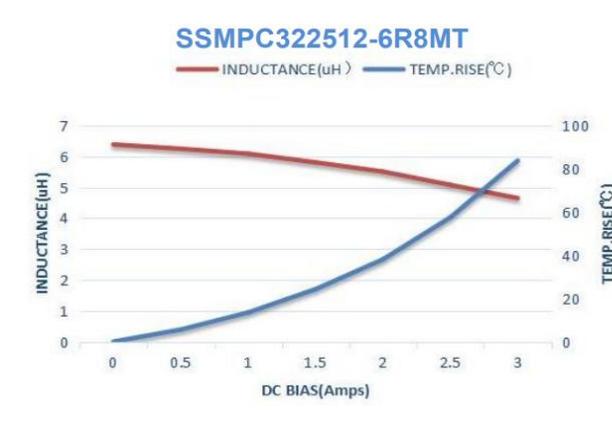
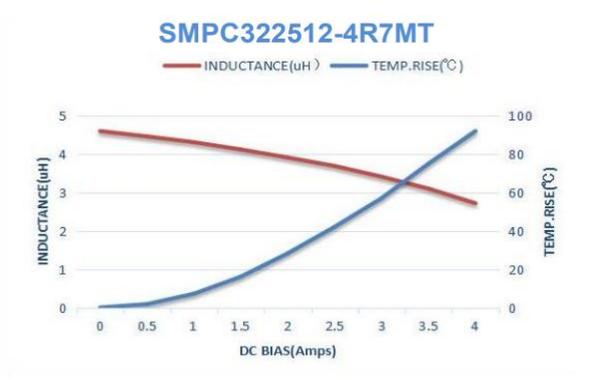
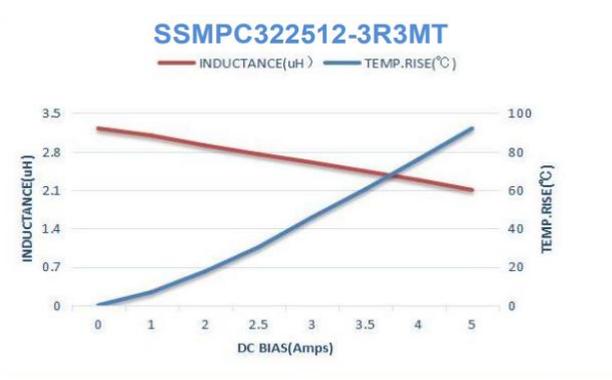
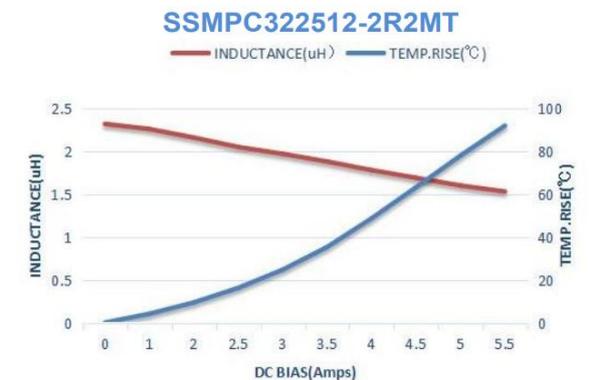
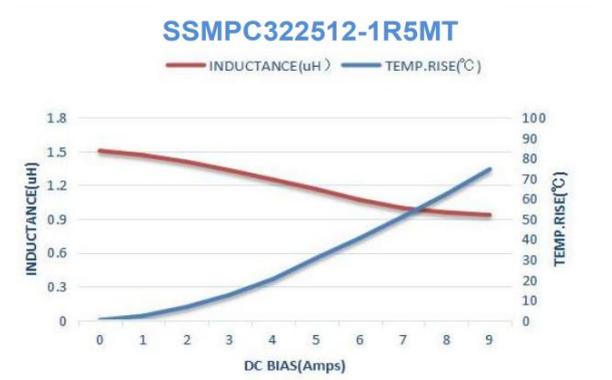
| | | | |
|-----------------------|--------------|------------------------|--|
| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

Product Specification



| | | | |
|-----------------------|--------------|------------------------|--|
| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

Product Specification



| | | | |
|-----------------------|--------------|------------------------|--|
| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |

SSMPC322520 series

| Part No. | Inductance | DC Resistance | | Saturation Current | Heating Rating Current |
|-------------------|------------|---------------|------|--------------------|------------------------|
| | L (μH)±20% | DCR (mΩ) | | Isat (A) | Irms (A) |
| | @1MHz,1.0V | MAX | TYP | TYP | TYP |
| SSMPC322520-R27MT | 0.27 | 6.5 | 5.5 | 16 | 16 |
| SSMPC322520-R33MT | 0.33 | 9 | 7.5 | 15.5 | 9.5 |
| SSMPC322520-R47MT | 0.47 | 10.5 | 9 | 15 | 9.5 |
| SSMPC322520-R68MT | 0.68 | 14.5 | 12.5 | 13 | 9 |
| SSMPC322520-1R0MT | 1 | 17.5 | 15 | 9 | 8.2 |
| SSMPC322520-1R5MT | 1.5 | 25 | 22 | 6.8 | 6.5 |
| SSMPC322520-2R2MT | 2.2 | 43 | 36 | 6.5 | 5.4 |
| SSMPC322520-3R3MT | 3.3 | 60 | 55 | 4.5 | 4.5 |
| SSMPC322520-4R7MT | 4.7 | 94 | 81 | 4 | 3.5 |
| SSMPC322520-6R8MT | 6.8 | 125 | 101 | 3.8 | 2.8 |

Notes:

- (1). All test data is referenced to 25°C ambient.
- (2). Inductance Tolerance±20%.
- (3). Test Condition:1MHz, 1.0Vrms.
- (4). Rated current: Isat or Irms, whichever is smaller.
- (5). Isat: DC current at which the inductance drops approximate 30% TYP from its value without current.
- (6). Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}C$) from 25°C ambient.

| | | | |
|------------------------------|---------------------|-------------------------------|--|
| Semitel'S MODEL NO. : | SSMPC Series | CUSTOMER'S MODEL NO. : | |
| VERSION: | A | CUSTOMER'S PART NO. : | |
| DATE: | 2025/12/10 | | |