

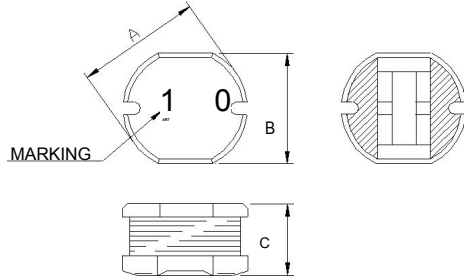
SMD Type Power Inductor	S MDF0302BM-SERIES
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1. Features

1. Excellent solderability and high heat resistance.
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

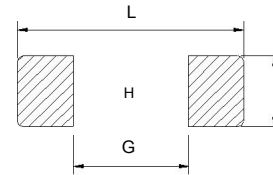


2. Dimension



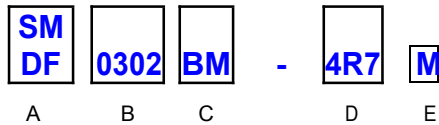
Size	A(mm)	B(mm)	C(mm)
S MDF 0302	3.50±0.3	3.00±0.3	2.10±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
3.7	1.1	3.3

3. Part Numbering



- A: Series
 - B: Dimension
 - C: Lead free type
 - D: Inductance
 - E: Inductance Tolerance
- Black marking
 4R7=4.7uH
 K=±10%, M=±20%

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4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDF 0302BM-1R0M	1.0	± 20%	1V/7.96M	0.04	1.50
SMDF 0302BM-1R4M	1.4	± 20%	1V/7.96M	0.05	1.50
SMDF 0302BM-1R8M	1.8	± 20%	1V/7.96M	0.06	0.80
SMDF 0302BM-2R2M	2.2	± 20%	1V/7.96M	0.08	0.75
SMDF 0302BM-2R7M	2.7	± 20%	1V/7.96M	0.10	0.75
SMDF 0302BM-3R3M	3.3	± 20%	1V/7.96M	0.15	0.60
SMDF 0302BM-3R9M	3.9	± 20%	1V/7.96M	0.20	0.50
SMDF 0302BM-4R7M	4.7	± 20%	1V/7.96M	0.20	0.50
SMDF 0302BM-5R6M	5.6	± 20%	1V/7.96M	0.23	0.45
SMDF 0302BM-6R8M	6.8	± 20%	1V/7.96M	0.25	0.40
SMDF 0302BM-8R2M	8.2	± 20%	1V/7.96M	0.30	0.40
SMDF 0302BM-100M	10	± 20%	1V/2.52M	0.35	0.35
SMDF 0302BM-120M	12	± 20%	1V/2.52M	0.40	0.35
SMDF 0302BM-150M	15	± 20%	1V/2.52M	0.50	0.30
SMDF 0302BM-180M	18	± 20%	1V/2.52M	0.55	0.30
SMDF 0302BM-220M	22	± 20%	1V/2.52M	0.60	0.30
SMDF 0302BM-270M	27	± 20%	1V/2.52M	0.70	0.30
SMDF 0302BM-330M	33	± 20%	1V/2.52M	1.00	0.25
SMDF 0302BM-390M	39	± 20%	1V/2.52M	1.20	0.25
SMDF 0302BM-470M	47	± 20%	1V/2.52M	1.50	0.20
SMDF 0302BM-560M	56	± 20%	1V/2.52M	1.80	0.20
SMDF 0302BM-680M	68	± 20%	1V/2.52M	2.00	0.18
SMDF 0302BM-820M	82	± 20%	1V/2.52M	2.50	0.16
SMDF 0302BM-101M	100	± 20%	1V/1K	3.00	0.15
SMDF 0302BM-121M	120	± 20%	1V/1K	3.50	0.14
SMDF 0302BM-151M	150	± 20%	1V/1K	4.00	0.13
SMDF 0302BM-181M	180	± 20%	1V/1K	5.00	0.12
SMDF 0302BM-221M	220	± 20%	1V/1K	5.50	0.10
SMDF 0302BM-271M	270	± 20%	1V/1K	6.00	0.10
SMDF 0302BM-331M	330	± 20%	1V/1K	7.00	0.10
SMDF 0302BM-391M	390	± 20%	1V/1K	8.00	0.10
SMDF 0302BM-471M	470	± 20%	1V/1K	12.00	0.09

Note:

Based on inductance change ($\Delta L/L0 : \leq -35\%$) @ ambient temp. 25°C

Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)

SMD Type Power Inductor

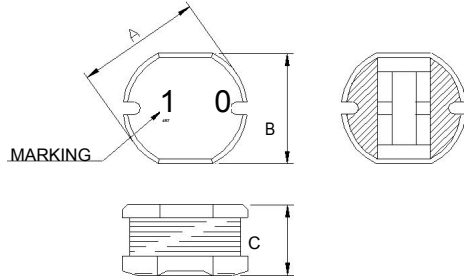
SMDF0403BM-SERIES

1. Features

- 1.Excellent solderability and high heat resistance.
- 2.Excellent terminal strength construction.
- 3.Packed in embossed carrier tape and can be used by automatic mounting machine.
- 4.100% Lead(Pb) & Halogen-Free and RoHS compliant.

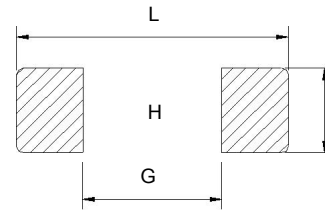


2. Dimension



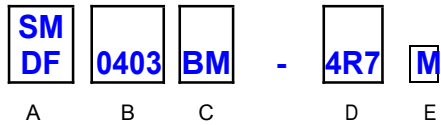
Size	A(mm)	B(mm)	C(mm)
SMDF 0403	4.50±0.3	4.00±0.3	3.20±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
5.0	1.5	4.5

3. Part Numbering



A: Series

B: Dimension

C: Lead free type

D: Inductance

E: Inductance Tolerance

Black marking

4R7=4.7uH

K=±10%, M=±20%

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4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
S MDF 0403BM-1R0M	1.0	± 20%	1V/7.96M	0.03	4.00
S MDF 0403BM-1R4M	1.4	± 20%	1V/7.96M	0.04	3.50
S MDF 0403BM-1R8M	1.8	± 20%	1V/7.96M	0.05	3.00
S MDF 0403BM-2R2M	2.2	± 20%	1V/7.96M	0.06	2.60
S MDF 0403BM-2R7M	2.7	± 20%	1V/7.96M	0.06	2.20
S MDF 0403BM-3R3M	3.3	± 20%	1V/7.96M	0.07	2.00
S MDF 0403BM-3R9M	3.9	± 20%	1V/7.96M	0.07	2.00
S MDF 0403BM-4R7M	4.7	± 20%	1V/7.96M	0.08	1.90
S MDF 0403BM-5R6M	5.6	± 20%	1V/7.96M	0.12	1.80
S MDF 0403BM-6R8M	6.8	± 20%	1V/7.96M	0.14	1.60
S MDF 0403BM-8R2M	8.2	± 20%	1V/7.96M	0.15	1.40
S MDF 0403BM-100M	10	± 20%	1V/2.52M	0.19	1.10
S MDF 0403BM-120M	12	± 20%	1V/2.52M	0.21	1.10
S MDF 0403BM-150M	15	± 20%	1V/2.52M	0.25	1.00
S MDF 0403BM-180M	18	± 20%	1V/2.52M	0.30	1.00
S MDF 0403BM-220M	22	± 20%	1V/2.52M	0.35	1.00
S MDF 0403BM-270M	27	± 20%	1V/2.52M	0.45	0.75
S MDF 0403BM-330M	33	± 20%	1V/2.52M	0.60	0.70
S MDF 0403BM-390M	39	± 20%	1V/2.52M	0.70	0.65
S MDF 0403BM-470M	47	± 20%	1V/2.52M	0.80	0.60
S MDF 0403BM-560M	56	± 20%	1V/2.52M	0.85	0.55
S MDF 0403BM-680M	68	± 20%	1V/2.52M	1.00	0.50
S MDF 0403BM-820M	82	± 20%	1V/2.52M	1.10	0.46
S MDF 0403BM-101M	100	± 20%	1V/1K	1.20	0.22
S MDF 0403BM-121M	120	± 20%	1V/1K	1.60	0.20
S MDF 0403BM-151M	150	± 20%	1V/1K	2.00	0.20
S MDF 0403BM-181M	180	± 20%	1V/1K	3.00	0.20
S MDF 0403BM-221M	220	± 20%	1V/1K	3.00	0.20
S MDF 0403BM-271M	270	± 20%	1V/1K	4.00	0.16
S MDF 0403BM-331M	330	± 20%	1V/1K	4.00	0.14
S MDF 0403BM-391M	390	± 20%	1V/1K	5.00	0.12
S MDF 0403BM-471M	470	± 20%	1V/1K	6.00	0.12
S MDF 0403BM-561M	560	± 20%	1V/1K	7.00	0.10

Note:
 Based on inductance change (ΔL/L0 : ≤-35%) @ ambient temp. 25°C
 Based on temperature rise (ΔT : 40°C typ.)

SMD Type Power Inductor

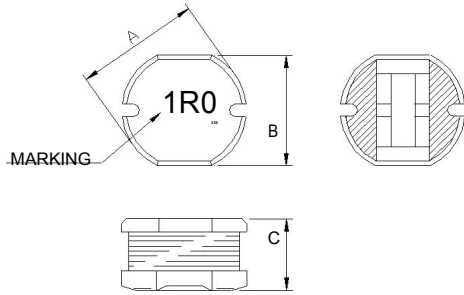
SMDF0503BM-SERIES

1. Features

1. Excellent solderability and high heat resistance.
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



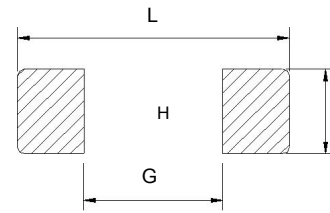
2. Dimension



Size	A(mm)	B(mm)	C(mm)
SMDF0503BM	5.80±0.3	5.20±0.3	3.00±0.3

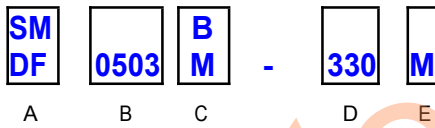
Unit: mm

Recommended Land pattern



L(mm)	G(mm)	H(mm)
6.0	1.7	5.5

3. Part Numbering



- A: Series
 - B: Dimension
 - C: Lead free type
 - D: Inductance
 - E: Inductance Tolerance
- Black marking
330=33.0uH
M=±20%

4. Specification

TOCOET Part Number	Inductance (uH)		DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
	Tolerance	Test Frequency (Hz)			
SMDF0503BM-1R5M	1.50±20%	1V/100K	37	4.10	4.10
SMDF0503BM-1R8M	1.80±20%	1V/7.96M	50	4.00	2.80
SMDF0503BM-4R7M	4.70±20%	1V/7.96M	130	1.30	1.30
SMDF0503BM-6R8M	6.80±20%	1V/7.96M	71.2	1.87	1.87
SMDF0503BM-8R2M	8.20±20%	1V/7.96M	100	2.00	2.00
SMDF0503BM-100M	10.0±20%	1V/2.52M	200	1.90	1.90
SMDF0503BM-330M	33.0±20%	1V/2.52M	450	1.40	1.40

Note:

- Based on inductance change ($\Delta L/L0 : \leq -35\%$) @ ambient temp. 25°C
- Based on temperature rise ($\Delta T : 40^\circ\text{C typ.}$)

SMD Type Power Inductor

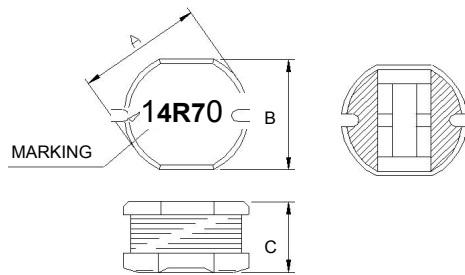
SMDF0504BM-SERIES

1. Features

1. Excellent solderability and high heat resistance.
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

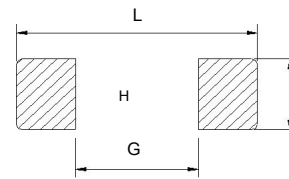


2. Dimension



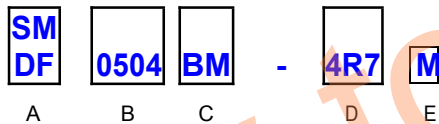
Size	A(mm)	B(mm)	C(mm)
SMDF 0504	5.80±0.3	5.20±0.3	4.50±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
6.0	1.7	5.5

3. Part Numbering



- A: Series
 - B: Dimension
 - C: Lead free type
 - D: Inductance
 - E: Inductance Tolerance
- Black marking
4R7=4.7uH
K=±10%, M=±20%

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4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDF 0504BM-1R0M	1.0	± 20%	1V/7.96M	0.018	3.50
SMDF 0504BM-1R4M	1.4	± 20%	1V/7.96M	0.020	3.50
SMDF 0504BM-1R8M	1.8	± 20%	1V/7.96M	0.025	3.00
SMDF 0504BM-2R2M	2.2	± 20%	1V/7.96M	0.030	2.80
SMDF 0504BM-2R7M	2.7	± 20%	1V/7.96M	0.035	2.60
SMDF 0504BM-3R3M	3.3	± 20%	1V/7.96M	0.040	2.50
SMDF 0504BM-3R9M	3.9	± 20%	1V/7.96M	0.050	2.30
SMDF 0504BM-4R7M	4.7	± 20%	1V/7.96M	0.060	2.60
SMDF 0504BM-5R6M	5.6	± 20%	1V/7.96M	0.070	2.40
SMDF 0504BM-6R8M	6.8	± 20%	1V/7.96M	0.080	2.20
SMDF 0504BM-8R2M	8.2	± 20%	1V/7.96M	0.080	2.00
SMDF 0504BM-100M	10	± 20%	1V/2.52M	0.090	1.80
SMDF 0504BM-120M	12	± 20%	1V/2.52M	0.100	1.60
SMDF 0504BM-150M	15	± 20%	1V/2.52M	0.120	1.50
SMDF 0504BM-180M	18	± 20%	1V/2.52M	0.150	1.40
SMDF 0504BM-220M	22	± 20%	1V/2.52M	0.180	1.30
SMDF 0504BM-270M	27	± 20%	1V/2.52M	0.220	1.20
SMDF 0504BM-330M	33	± 20%	1V/2.52M	0.260	1.00
SMDF 0504BM-390M	39	± 20%	1V/2.52M	0.300	0.90
SMDF 0504BM-470M	47	± 20%	1V/2.52M	0.350	0.85
SMDF 0504BM-560M	56	± 20%	1V/2.52M	0.400	0.80
SMDF 0504BM-680M	68	± 20%	1V/2.52M	0.450	0.70
SMDF 0504BM-820M	82	± 20%	1V/2.52M	0.500	0.70
SMDF 0504BM-101M	100	± 20%	1V/1K	0.700	0.60
SMDF 0504BM-121M	120	± 20%	1V/1K	0.750	0.60
SMDF 0504BM-151M	150	± 20%	1V/1K	0.900	0.55
SMDF 0504BM-181M	180	± 20%	1V/1K	1.100	0.50
SMDF 0504BM-221M	220	± 20%	1V/1K	1.200	0.40
SMDF 0504BM-271M	270	± 20%	1V/1K	1.500	0.25
SMDF 0504BM-331M	330	± 20%	1V/1K	3.000	0.22
SMDF 0504BM-391M	390	± 20%	1V/1K	3.500	0.20
SMDF 0504BM-471M	470	± 20%	1V/1K	4.000	0.19
SMDF 0504BM-561M	560	± 20%	1V/1K	4.000	0.18
SMDF 0504BM-681M	680	± 20%	1V/1K	4.500	0.15

Note:

Based on inductance change (ΔL/L0 : ≤-35%) @ ambient temp. 25°C

Based on temperature rise (ΔT : 40°C typ.)

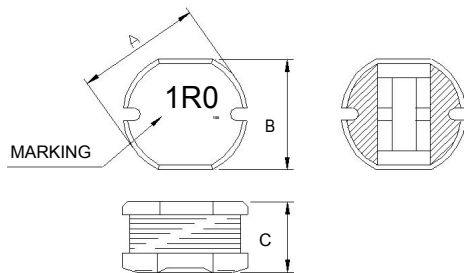
SMD Type Power Inductor **SMDF0703BM-SERIES**

1. Features

- 1. Excellent solderability and high heat resistance.
- 2. Excellent terminal strength construction.
- 3. Packed in embossed carrier tape and can be used by automatic mounting machine.
- 4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

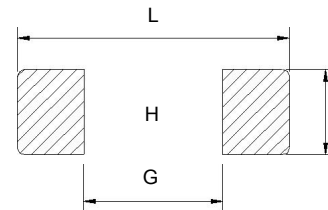


2. Dimension



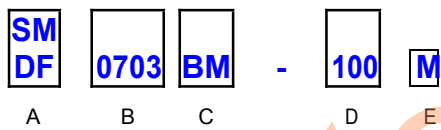
Size	A(mm)	B(mm)	C(mm)
SMDF 0703	7.80±0.3	7.00±0.3	3.50±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
8.0	2.0	7.5

3. Part Numbering



- A: Series
- B: Dimension
- C: Lead free type
- D: Inductance
100=10uH
- E: Inductance Tolerance
K=±10%, M=±20%

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4. Specification

TOCOET Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDF 0703BM-100M	10	$\pm 20\%$	1V/2.52M	0.0803	1.44
SMDF 0703BM-120M	12	$\pm 20\%$	1V/2.52M	0.0897	1.39
SMDF 0703BM-150M	15	$\pm 20\%$	1V/2.52M	0.1040	1.24
SMDF 0703BM-180M	18	$\pm 20\%$	1V/2.52M	0.1110	1.12
SMDF 0703BM-220M	22	$\pm 20\%$	1V/2.52M	0.1290	1.07
SMDF 0703BM-270M	27	$\pm 20\%$	1V/2.52M	0.1530	0.97
SMDF 0703BM-330M	33	$\pm 20\%$	1V/2.52M	0.1700	0.85
SMDF 0703BM-390M	39	$\pm 20\%$	1V/2.52M	0.2170	0.74
SMDF 0703BM-470M	47	$\pm 20\%$	1V/2.52M	0.2520	0.68
SMDF 0703BM-560K	56	$\pm 10\%$	1V/2.52M	0.2820	0.64
SMDF 0703BM-680K	68	$\pm 10\%$	1V/2.52M	0.3320	0.59
SMDF 0703BM-820K	82	$\pm 10\%$	1V/2.52M	0.4060	0.54
SMDF 0703BM-101K	100	$\pm 10\%$	1V/1K	0.4810	0.51
SMDF 0703BM-121K	120	$\pm 10\%$	1V/1K	0.5360	0.49
SMDF 0703BM-151K	150	$\pm 10\%$	1V/1K	0.7550	0.40
SMDF 0703BM-181K	180	$\pm 10\%$	1V/1K	1.0220	0.36
SMDF 0703BM-221K	220	$\pm 10\%$	1V/1K	1.2000	0.31
SMDF 0703BM-271K	270	$\pm 10\%$	1V/1K	1.3060	0.29
SMDF 0703BM-331K	330	$\pm 10\%$	1V/1K	1.4950	0.28

Note:

Based on inductance change ($\Delta L/L0$: $\leq -35\%$) @ ambient temp. 25°C

Based on temperature rise (ΔT : 40°C typ.)

SMD Type Power Inductor

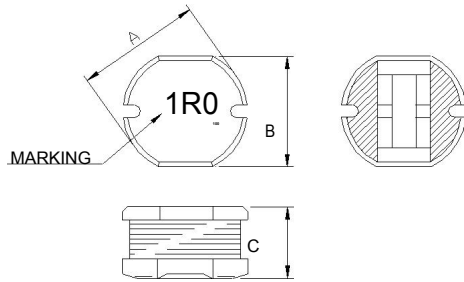
SMDF0705BM-SERIES

1. Features

1. Excellent solderability and high heat resistance.
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

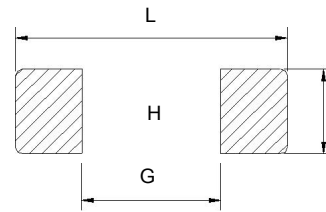


2. Dimension



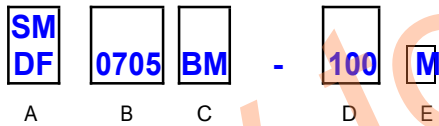
Size	A(mm)	B(mm)	C(mm)
SMDF 0705	7.80±0.3	7.00±0.3	5.00±0.3

Recommended Land pattern



L(mm)	G(mm)	H(mm)
8.0	2.0	7.5

3. Part Numbering



- A: Series
 - B: Dimension
 - C: Lead free type
 - D: Inductance
 - E: Inductance Tolerance
- Black marking
100=10uH
K=±10%, M=±20%

4. Specification

TOCOET Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
SMDF 0705BM-3R3M	3.30	$\pm 20\%$	1V/7.96M	0.03	4.60
SMDF 0705BM-4R7M	4.70	$\pm 20\%$	1V/7.96M	0.04	4.20
SMDF 0705BM-100M	10.0	$\pm 20\%$	1V/2.52M	0.07	2.30
SMDF 0705BM-120M	12.0	$\pm 20\%$	1V/2.52M	0.08	2.00
SMDF 0705BM-150M	15.0	$\pm 20\%$	1V/2.52M	0.09	1.80
SMDF 0705BM-180M	18.0	$\pm 20\%$	1V/2.52M	0.10	1.60
SMDF 0705BM-220M	22.0	$\pm 20\%$	1V/2.52M	0.11	1.50
SMDF 0705BM-270M	27.0	$\pm 20\%$	1V/2.52M	0.12	1.30
SMDF 0705BM-330M	33.0	$\pm 20\%$	1V/2.52M	0.13	1.20
SMDF 0705BM-390M	39.0	$\pm 20\%$	1V/2.52M	0.16	1.10
SMDF 0705BM-470K	47.0	$\pm 10\%$	1V/2.52M	0.18	1.10
SMDF 0705BM-560K	56.0	$\pm 10\%$	1V/2.52M	0.24	0.94
SMDF 0705BM-680K	68.0	$\pm 10\%$	1V/2.52M	0.28	0.85
SMDF 0705BM-820K	82.0	$\pm 10\%$	1V/2.52M	0.37	0.78
SMDF 0705BM-101K	100	$\pm 10\%$	1V/1K	0.43	0.72
SMDF 0705BM-121K	120	$\pm 10\%$	1V/1K	0.47	0.66
SMDF 0705BM-151K	150	$\pm 10\%$	1V/1K	0.64	0.58
SMDF 0705BM-181K	180	$\pm 10\%$	1V/1K	0.71	0.51
SMDF 0705BM-221K	220	$\pm 10\%$	1V/1K	0.96	0.49
SMDF 0705BM-271K	270	$\pm 10\%$	1V/1K	1.11	0.42
SMDF 0705BM-331K	330	$\pm 10\%$	1V/1K	1.26	0.40
SMDF 0705BM-391K	390	$\pm 10\%$	1V/1K	1.77	0.36
SMDF 0705BM-471K	470	$\pm 10\%$	1V/1K	1.96	0.34

Note:

Based on inductance change ($\Delta L/L0 : \leq -35\%$) @ ambient temp. 25°C

Based on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)