

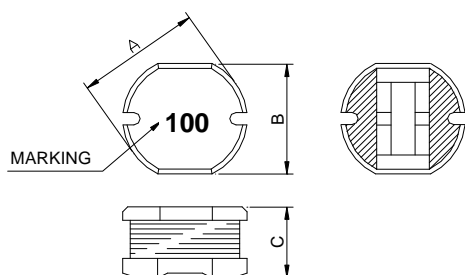
**SMD Type Power Inductor** FPI0302BMV-Series

**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.
5. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125°C (Including self - temperature rise)



**2. Dimensions**



Size	A	B	C
FPI 0302	3.50±0.3	3.00±0.3	2.10±0.3

Units: mm

**3. Part Numbering**



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

## 4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
FPI 0302BMV-1R0M	1.0	$\pm 20\%$	1V/7.96M	0.04	1.50
FPI 0302BMV-2R2M	2.2	$\pm 20\%$	1V/7.96M	0.08	0.75
FPI 0302BMV-3R3M	3.3	$\pm 20\%$	1V/7.96M	0.15	0.60
FPI 0302BMV-4R7M	4.7	$\pm 20\%$	1V/7.96M	0.20	0.50
FPI 0302BMV-5R6M	5.6	$\pm 20\%$	1V/7.96M	0.23	0.45
FPI 0302BMV-6R8M	6.8	$\pm 20\%$	1V/7.96M	0.25	0.40
FPI 0302BMV-8R2M	8.2	$\pm 20\%$	1V/7.96M	0.30	0.40
FPI 0302BMV-100M	10	$\pm 20\%$	1V/2.52M	0.35	0.35
FPI 0302BMV-120M	12	$\pm 20\%$	1V/2.52M	0.40	0.35
FPI 0302BMV-150M	15	$\pm 20\%$	1V/2.52M	0.50	0.30
FPI 0302BMV-180M	18	$\pm 20\%$	1V/2.52M	0.55	0.30
FPI 0302BMV-220M	22	$\pm 20\%$	1V/2.52M	0.60	0.30
FPI 0302BMV-270M	27	$\pm 20\%$	1V/2.52M	0.70	0.30
FPI 0302BMV-330M	33	$\pm 20\%$	1V/2.52M	1.00	0.25
FPI 0302BMV-390M	39	$\pm 20\%$	1V/2.52M	1.20	0.25
FPI 0302BMV-470M	47	$\pm 20\%$	1V/2.52M	1.50	0.20
FPI 0302BMV-560M	56	$\pm 20\%$	1V/2.52M	1.80	0.20
FPI 0302BMV-680M	68	$\pm 20\%$	1V/2.52M	2.00	0.18
FPI 0302BMV-820M	82	$\pm 20\%$	1V/2.52M	2.50	0.16
FPI 0302BMV-101M	100	$\pm 20\%$	1V/1K	3.00	0.15
FPI 0302BMV-121M	120	$\pm 20\%$	1V/1K	3.50	0.14
FPI 0302BMV-151M	150	$\pm 20\%$	1V/1K	4.00	0.13
FPI 0302BMV-221M	220	$\pm 20\%$	1V/1K	5.50	0.10
FPI 0302BMV-331M	330	$\pm 20\%$	1V/1K	7.00	0.10
FPI 0302BMV-471M	470	$\pm 20\%$	1V/1K	12.0	0.09

Note:

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

Based on temperature rise ( $\Delta T$  : 40°C typ. )

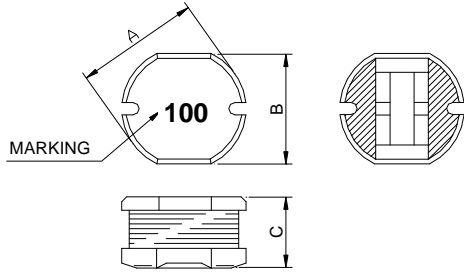
**SMD Type Power Inductor** **FPI0403BMV-Series**

**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.
5. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125°C (Including self - temperature rise)



**2. Dimensions**



Size	A	B	C
FPI 0403	4.50±0.3	4.00±0.3	3.20±0.3

Units: mm

**3. Part Numbering**



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

## 4. Specification

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

Note:

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

Based on temperature rise ( $\Delta T$  : 40°C typ. )

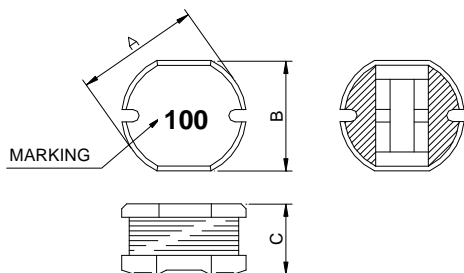
**SMD Type Power Inductor** **FPI0503BMV-Series**

**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.
5. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125°C (Including self - temperature rise)



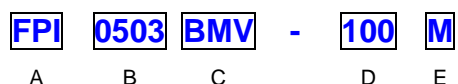
**2. Dimensions**



Size	A	B	C
FPI 0503	5.80±0.3	5.20±0.3	3.00±0.3

Units: mm

**3. Part Numbering**



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

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $m\Omega$ ) max.	Isat (A) max.	Irms (A) max.
FPI 0503BMV-1R5M	1.5	$\pm 20\%$	1V/100K	37	4.10	4.10
FPI 0503BMV-1R8M	1.8	$\pm 20\%$	1V/7.96M	50	4.00	2.80
FPI 0503BMV-4R7M	4.7	$\pm 20\%$	1V/7.96M	130	1.30	1.30
FPI 0503BMV-6R8M	6.8	$\pm 20\%$	1V/7.96M	71.2	1.87	1.87
FPI 0503BMV-8R2M	8.2	$\pm 20\%$	1V/7.96M	100	2.00	2.00
FPI 0503BMV-100M	10	$\pm 20\%$	1V/2.52M	200	1.90	1.90
FPI 0503BMV-330M	33	$\pm 20\%$	1V/2.52M	450	1.40	1.40

Note:

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

Based on temperature rise ( $\Delta T$  : 40°C typ. )

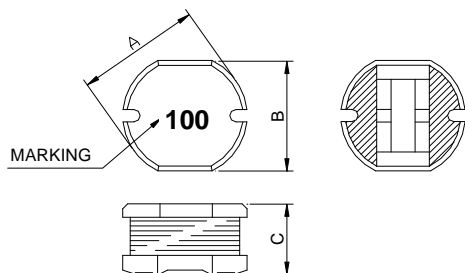
**SMD Type Power Inductor** FPI0504BMV-Series

**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.
5. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125°C (Including self - temperature rise)



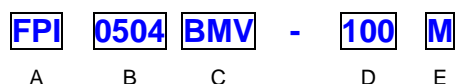
**2. Dimensions**



Size	A	B	C
FPI 0504	5.80±0.3	5.20±0.3	4.50±0.3

Units: mm

**3. Part Numbering**



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

## 4. Specification

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

Note

Based on inductance change ( $\Delta L/L0$  : 35%) @ ambient temp. 25°CBased on temperature rise ( $\Delta T$  : 40°C typ. )



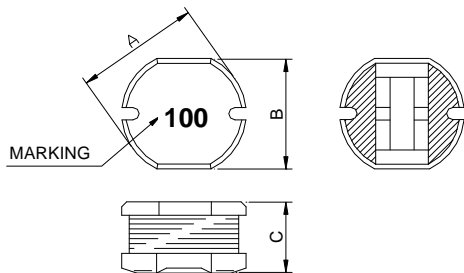
**SMD Type Power Inductor** **FPI0705BMV-Series**

**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.
5. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125°C (Including self - temperature rise)



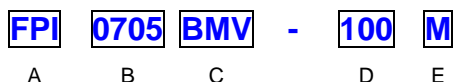
**2. Dimensions**



Size	A	B	C
FPI 0705	7.80±0.3	7.00±0.3	5.00±0.3

Units: mm

**3. Part Numbering**



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

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A) max.
FPI 0705BMV-3R3M	3.3	$\pm 20\%$	1V/7.96M	0.03	4.60
FPI 0705BMV-4R7M	4.7	$\pm 20\%$	1V/7.96M	0.04	4.20
FPI 0705BMV-100M	10	$\pm 20\%$	1V/2.52M	0.07	2.30
FPI 0705BMV-120M	12	$\pm 20\%$	1V/2.52M	0.08	2.00
FPI 0705BMV-150M	15	$\pm 20\%$	1V/2.52M	0.09	1.80
FPI 0705BMV-180M	18	$\pm 20\%$	1V/2.52M	0.10	1.60
FPI 0705BMV-220M	22	$\pm 20\%$	1V/2.52M	0.11	1.50
FPI 0705BMV-270M	27	$\pm 20\%$	1V/2.52M	0.12	1.30
FPI 0705BMV-330M	33	$\pm 20\%$	1V/2.52M	0.13	1.20
FPI 0705BMV-390M	39	$\pm 20\%$	1V/2.52M	0.16	1.10
FPI 0705BMV-470K	47	$\pm 10\%$	1V/2.52M	0.18	1.10
FPI 0705BMV-560K	56	$\pm 10\%$	1V/2.52M	0.24	0.94
FPI 0705BMV-680K	68	$\pm 10\%$	1V/2.52M	0.28	0.85
FPI 0705BMV-820K	82	$\pm 10\%$	1V/2.52M	0.37	0.78
FPI 0705BMV-101K	100	$\pm 10\%$	1V/1K	0.43	0.72
FPI 0705BMV-121K	120	$\pm 10\%$	1V/1K	0.47	0.66
FPI 0705BMV-151K	150	$\pm 10\%$	1V/1K	0.64	0.58
FPI 0705BMV-181K	180	$\pm 10\%$	1V/1K	0.71	0.51
FPI 0705BMV-221K	220	$\pm 10\%$	1V/1K	0.96	0.49
FPI 0705BMV-271K	270	$\pm 10\%$	1V/1K	1.11	0.42
FPI 0705BMV-331K	330	$\pm 10\%$	1V/1K	1.26	0.40
FPI 0705BMV-391K	390	$\pm 10\%$	1V/1K	1.77	0.36
FPI 0705BMV-471K	470	$\pm 10\%$	1V/1K	1.96	0.34

Note

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

Based on temperature rise ( $\Delta T$  : 40°C typ. )