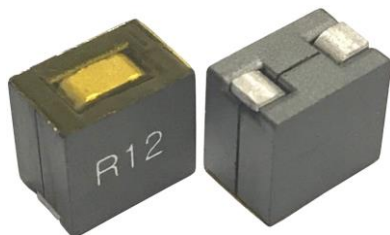


BPMV Series



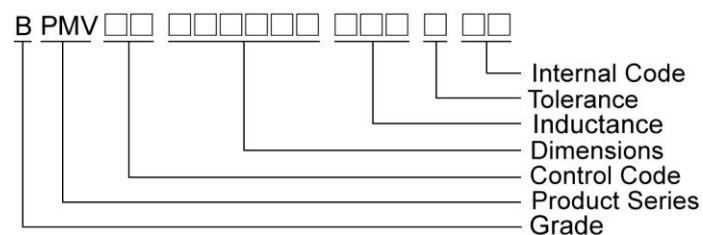
Features

- RoHS, Halogen Free and REACH Compliance
 - Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
 - Gapped ferrite cores for maximum efficiency
- Customized specifications are available

Applications

- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

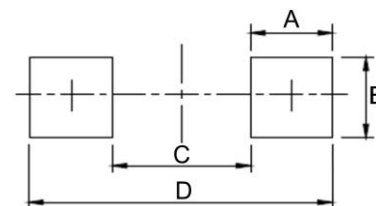
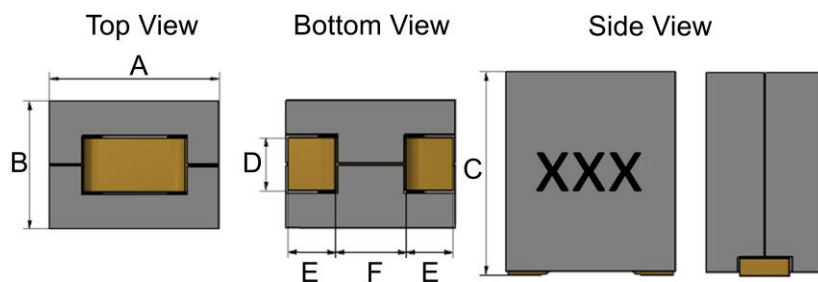


SMD Shielded Power Inductors – BPMV Series

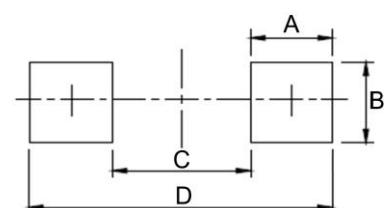
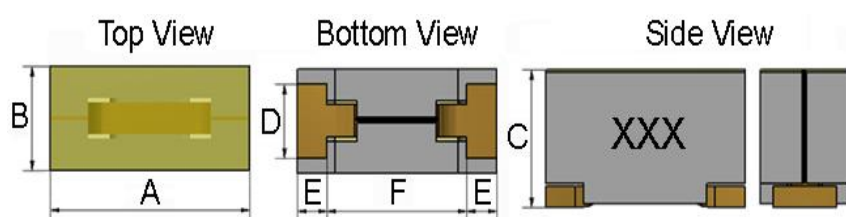
Shape and Dimensions

Recommended Pattern

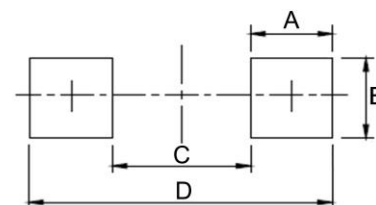
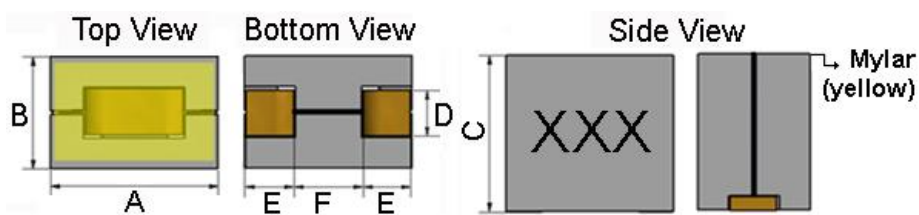
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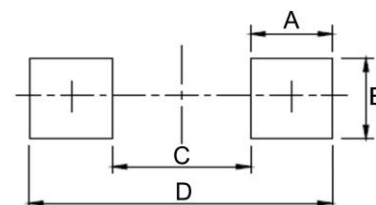
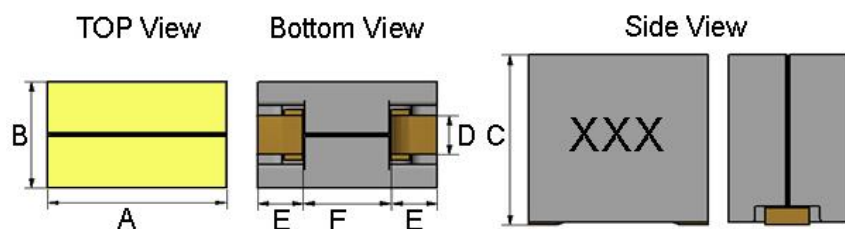
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BPMV00100690

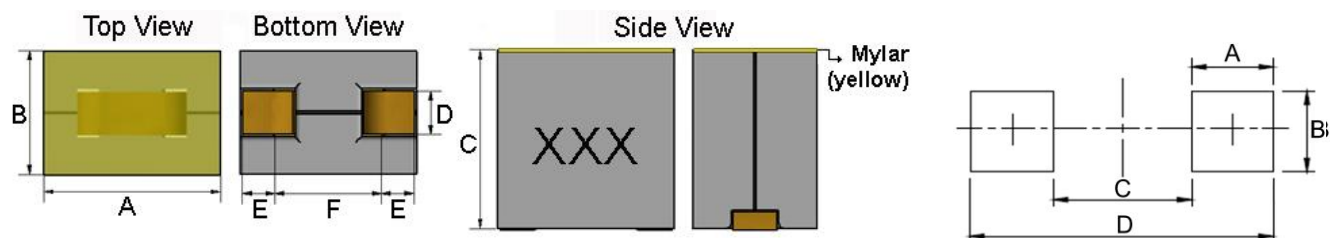


BPMV00100612

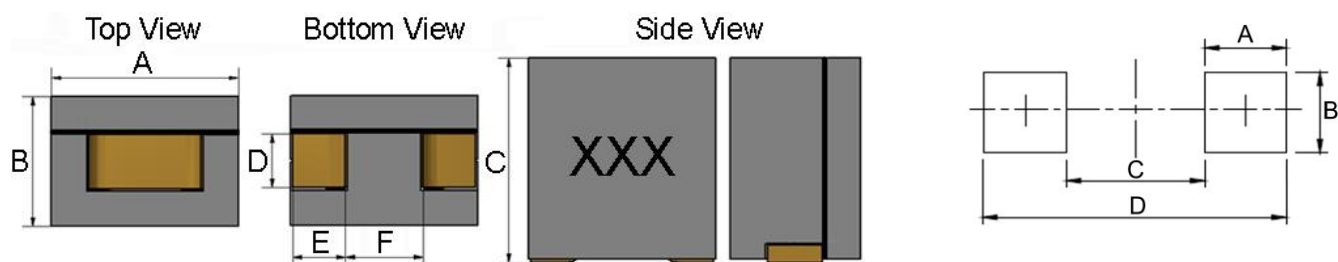


SMD Shielded Power Inductors – BPMV Series

BPMV00100710/110812-0E



BPMV00110810



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPMV00080812	7.6Max	8.1Max	12Max	4.4±0.1	2	3.1	2.5	4.9	2.6	7.6
BPMV00100612	10Max	6Max	12Max	2.4	2.25	5.0	3.2	3.3	3.9	10.3
BPMV00100460	10 ±0.2	0.12uH 4.6 ±0.2 0.22uH 4.4 ±0.3	6.0Max	3.2	1.5	7.0	2.5	3.7	5.3	10.3
BPMV00100690	9.6Max	6.4Max 0.09uH 6.45Max	9.0Max	2.6	2.5	4.0	3.2	3.1	3.5	9.9
BPMV00100710	10Max	7.0Max	10Max	2.4±0.2	2.4	4.2	3.3	3.0	4.4	11.0
BPMV00110810	10.7Max	7.5Max	9.5Max	2.8	2.8	4.6	3.8	4.1	3.3	10.9
BPMV00110812	10.7Max	7.5Max	12Max	3.1	2.8	4.4	3.6	3.6	3.7	10.9

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	(A)Typ		Irms (A)Typ	Marking
					Isat 1	Isat 2		
BPMV00080812R12□0E	0.12	10,15,20	100	0.155	95	79	60	R12
BPMV00080812R15□0E	0.15	10,15,20	100	0.155	86	73	60	R15
BPMV00080812R17□0E	0.17	10,15,20	100	0.155	75	64	60	R17
BPMV00080812R22□0E	0.22	10,15,20	100	0.155	57	48	60	R22
BPMV00080812R32□0E	0.32	10,15,20	100	0.155	37	31	60	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range—40℃ ~125℃ (Including self - temperature rise)
- Isat 1 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 25℃
- Isat 2 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ	Irms (A)Typ	Marking
BPMV00100460R12□0H	0.12	10,15,20	100	0.23	55	70	R12
BPMV00100460R22□0F	0.22	10,15,20	100	0.23	22	70	R22

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range—40°C ~125°C (Including self - temperature rise)
- Isat : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 25°C
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (m Ω) $\pm$ 10%	Isat 1	Isat 2	Isat 3	Isat 4	Irms (A)Typ	Marking
BPMV00100612R10 $\square$ 0E	0.1	10,15,20	100	0.125	125	105	96	88	77	R10
BPMV00100612R12 $\square$ 0E	0.12	10,15,20	100	0.125	105	93	88	81	77	R12
BPMV00100612R12 $\square$ 0H	0.12	10,15,20	500	0.125	105	93	88	81	77	R12
BPMV00100612R15 $\square$ 0E	0.15	10,15,20	100	0.125	83	75	78	65	77	R15
BPMV00100612R15 $\square$ 0H	0.15	10,15,20	500	0.125	83	75	78	65	77	R15
BPMV00100612R33 $\square$ 0E	0.33	10,15,20	100	0.125	40	33	28	26	77	R33

Note: When ordering, please specify tolerance code. Tolerance: K= $\pm$ 10% , L= $\pm$ 15% , M= $\pm$ 20%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat 1 : Based on inductance change (Δ L/Lo : drop 20% Typ) @ ambient temp. 25°C
- Isat 2 : Based on inductance change (Δ L/Lo : drop 20% Typ) @ ambient temp. 75°C
- Isat 3 : Based on inductance change (Δ L/Lo : drop 20% Typ) @ ambient temp. 100°C
- Isat 4 : Based on inductance change (Δ L/Lo : drop 20% Typ) @ ambient temp. 125°C
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ		Irms (A)Typ	Marking
					Isat 1	Isat 2		
BPMV0010069090N□0E	0.09	10,15,20	100	0.17	125	104	66	90N
BPMV00100690R12□0E	0.12	10,15,20	100	0.17	94	75	66	R12
BPMV00100690R15□0E	0.15	10,15,20	100	0.17	75	55	66	R15
BPMV00100690R21□0E	0.21	10,15,20	100	0.17	50	37.5	66	R21
BPMV00100690R30□0E	0.30	10,15,20	100	0.17	33	29	66	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat 1 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 25°C
- Isat 2 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 125°C
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (uH)	Inductance @ Isat 1 (uH)Typ	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	(A)Typ			Irms (A)Typ	Marking
						Isat 1	Isat 2	Isat 3		
BPMV00100710R10□0E	0.10	0.09	15	100	0.185	113	86	81	68	R10
BPMV00100710R12□0E	0.12	0.12	15	100	0.185	90	80	75	68	R12
BPMV00100710R15□0E	0.15	0.15	15	100	0.185	80	75	73	68	R15
BPMV00100710R33□0E	0.33	0.31	15	100	0.185	43	33	31	68	R33

Note: When ordering, please specify tolerance code. Tolerance: L=±15%

- Operating temperature range—40°C ~ 125°C (Including self - temperature rise)
- Isat 1 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 25°C
- Isat 2 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 100°C
- Isat 3 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 125°C
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ		Irms (A)Typ	Marking
BPMV00110810R12□00	0.12	10,15,20	100	0.23	Isat 1	Isat 2	61	R12
BPMV00110810R15□00	0.15	10,15,20	100	0.23	90	70	61	R15
BPMV00110810R20□00	0.20	10,15,20	100	0.23	70	58	61	R20
BPMV00110810R22□00	0.22	10,15,20	100	0.23	64	51	61	R22
BPMV00110810R25□00	0.25	10,15,20	100	0.23	56	45	61	R25
BPMV00110810R27□00	0.27	10,15,20	100	0.23	55	44	61	R27
BPMV00110810R30□00	0.30	10,15,20	100	0.23	47	37	61	R30
BPMV00110810R32□00	0.32	10,15,20	100	0.23	42	36	61	R32
BPMV00110810R36□00	0.36	10,15,20	100	0.23	38	34	61	R36
BPMV00110810R40□00	0.40	15,20	100	0.23	36	29	61	R40
BPMV00110810R47□00	0.47	20	100	0.23	28	25	61	R47

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat 1 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 25°C
- Isat 2 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 100°C
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ		Irms (A)Typ	Marking
					Isat 1	Isat 2		
BPMV00110812R15□0E	0.15	10,15,20	100	0.15	115	97	75	R15
BPMV00110812R18□0E	0.18	10,15,20	100	0.15	85	72	75	R18
BPMV00110812R22□0E	0.22	10,15,20	100	0.15	75	64	75	R22
BPMV00110812R25□0E	0.25	10,15,20	100	0.15	66	56	75	R25
BPMV00110812R27□0E	0.27	10,15,20	100	0.15	60	51	75	R27
BPMV00110812R30□0E	0.30	10,15,20	100	0.15	55	45	75	R30
BPMV00110812R32□0E	0.32	10,15,20	100	0.15	51	43	75	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range—40℃ ~125℃ (Including self - temperature rise)
- Isat 1 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 25℃
- Isat 2 : Based on inductance change ($\Delta L/L_0$: drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

SMD Shielded Power Inductors – BPMV Series

Standard Specifications

Part Number	Inductance (μ H)	Tolerance ($\pm$ %)	Test Frequency (kHz)	RDC (m Ω) $\pm$ 10%	FLL (μ H)Min	(A)Typ Isat 1 Isat 2		Irms (A)Typ	Marking
BPMV00110812R15 $\square$ 0F	0.15	10,15,20	100	0.15	0.096	115	97	75	R15
BPMV00110812R16 $\square$ 0F	0.16	10,15,20	100	0.15	0.102	99	84	75	R16
BPMV00110812R17 $\square$ 0F	0.17	10,15,20	100	0.15	0.109	91.5	78	75	R17
BPMV00110812R18 $\square$ 0F	0.18	10,15,20	100	0.15	0.115	89	76	75	R18
BPMV00110812R20 $\square$ 0F	0.20	10,15,20	100	0.15	0.128	81	69	75	R20
BPMV00110812R22 $\square$ 0H	0.22	10,15,20	100	0.15	-	75	64	75	R22
BPMV00110812R25 $\square$ 0F	0.25	10,15,20	100	0.15	0.160	66	56	75	R25
BPMV00110812R27 $\square$ 0F	0.27	10,15,20	100	0.15	0.173	60	51	75	R27
BPMV00110812R32 $\square$ 0F	0.32	10,15,20	100	0.15	-	51	43	75	R32
BPMV00110812R40 $\square$ 0F	0.40	10,15,20	100	0.15	0.256	41	35	75	R40
BPMV00110812R47 $\square$ 0F	0.47	10,15,20	100	0.15	0.301	34	29	75	R47
BPMV00110812R60 $\square$ 0F	0.60	15,20	100	0.15	0.384	24.5	21	75	R60

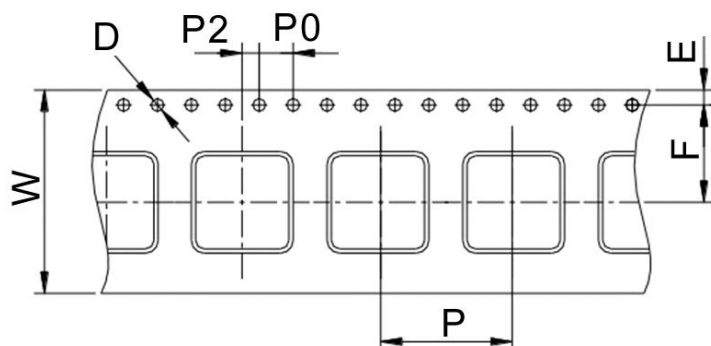
Note: When ordering, please specify tolerance code. Tolerance: K= $\pm$ 10% , L= $\pm$ 15% , M= $\pm$ 20%

- Operating temperature range – 40°C ~ 125°C (Including self - temperature rise)
- Isat 1 : Based on inductance change (Δ L/Lo : drop 20% Typ) @ ambient temp. 25°C (For 0.22,0.32 μ H)
- Isat 2 : Based on inductance change (Δ L/Lo : drop 20% Typ) @ ambient temp. 100°C (For 0.22,0.32 μ H)
- Full load Inductance(FLL) Test Parameters : 100kHz/1.0V, Isat 1(25°C) & Isat 2(100°C)
- Irms for a 40°C temperature rise from 25°C ambient with current
- Rated DC Current : The less value which is Isat 1 or Irms

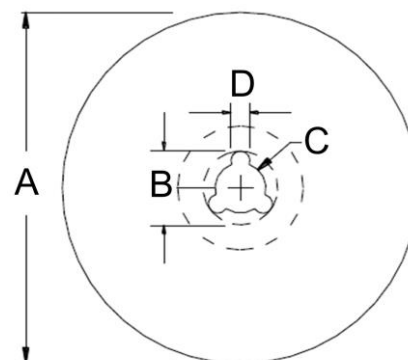
SMD Shielded Power Inductors – BPMV Series

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / Reel
	W	D	E	F	P	P0	P2	A	B	C	D	
BPMV00080812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
BPMV00100460	24	1.5	1.75	11.5	12	4	2	330	20	13	2	750
BPMV00100612	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
BPMV00100690	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00100710	24	1.5	1.75	11.5	16	4	2	330	20	13	2	350
BPMV00110810	24	1.5	1.75	11.5	16	4	2	330	20	13	2	350
BPMV00110812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300