

### ◆ Product information

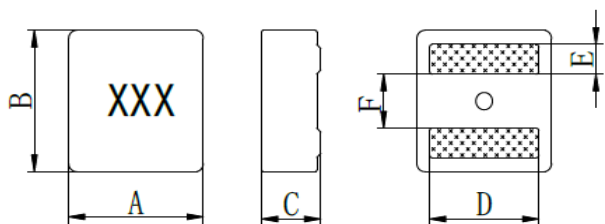
- Excellent current handling
- Exceptionally low DCR
- Soft saturation
- Composite construction minimizes audible buzzing.
- Tine-silver over copper terminations
- Material is composite

### ◆ Features

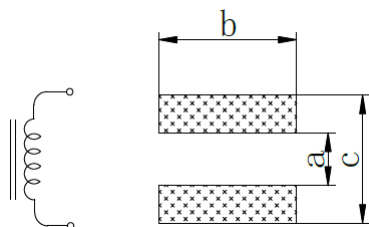
- Test Frequency: 100KHz 0.1V, Parameters Test Temp: 25°C,
- Operation Temp: -40°C to +125°C
- Storage Temp: 0~40°C
- Storage Humidity: 10% -70% RH
- Resistance to Soldering Heat: 260°C for 10 sec.
- MSL: 1
- Inductance drop 30% Max. with Isat
- Temp Rise: 40°C Typ. At Rated Current

### ◆ Applications

- Perfect for VRM/VRD applications
- Laptops and PCs, Switch and serves base station
- DC/DC converters
- Battery powered device
- SSD modules



Electrical Schematic & Recommend PAD



Dimensions(mm)

TYPE	A	B	C	D	E	F	a	b	c
							Typ.	Typ.	Typ.
OWIHPM0420	4.10±0.2	4.10±0.2	1.90±0.2	3.40±0.3	0.88±0.3	1.60±0.3	1.40	3.80	3.40
OWIHPM0430	4.1±0.25	4.10±0.25	2.80±0.3	3.40±0.3	0.88±0.3	1.60±0.3	1.40	3.80	3.40
OWIHPM0520	5.50±0.2	5.30±0.2	1.90±0.2	4.30±0.3	1.10±0.3	2.30±0.3	2.00	4.70	4.50
OWIHPM0530	5.50±0.2	5.30±0.2	2.90±0.2	4.30±0.3	1.10±0.3	2.30±0.3	2.00	4.70	4.50
OWIHPM0550	5.50±0.2	5.30±0.2	4.80±0.2	4.30±0.3	1.10±0.3	2.30±0.3	2.00	4.70	4.50
OWIHPM0630	6.60±0.2	6.40±0.2	2.80±0.2 L ≤ 1.2uH	See Remarks	1.40±0.3	2.60±0.3	2.50	5.60	5.60
	6.60±0.2	6.40±0.2	2.90±0.2 L ≥ 1.5uH	See Remarks	1.40±0.3	2.60±0.3	2.50	5.60	5.60
OWIHPM0650	6.60±0.2	6.40±0.2	4.80±0.2	See Remarks	1.40±0.3	2.60±0.3	2.50	5.60	5.60
OWIHPM0660	6.60±0.2	6.40±0.2	5.80±0.2	5.30±0.3	1.40±0.3	2.60±0.3	2.50	5.60	5.60
OWIHPM0730	7.80±0.25	7.60±0.2	2.90±0.2	See Remarks	1.75±0.3	3.15±0.3	2.80	7.20	7.40
OWIHPM0770	7.80±0.25	7.60±0.25	6.70±0.3	See Remarks	1.75±0.3	3.15±0.3	2.80	7.20	7.40
OWIHPM1508	16.5±0.3	15.5±0.3	7.7±0.3	13.2±0.5	3.2±0.3	7.4±0.5	6.0	15.0	15.0
OWIHPM1510	16.5±0.3	15.5±0.3	9.7±0.3	13.2±0.5	3.2±0.3	7.4±0.5	6.0	15.0	15.0

Remark:

P/N	D size	Relative Items	P/N	D size	Relative Items
OWIHPM0630	5.00±0.3	3R3 / 4R5 / 4R7	OWIHPM0650	5.20±0.3	8R2 / 6R8 / 5R6 / 4R7 / 4R3 / 3R3 / 2R2
	5.05±0.3	2R2		5.30±0.3	1R8 / 1R5 / 1R2 / 1R0 / R82
	5.10±0.3	1R8	OWIHPM0730	6.60±0.3	1R0 / 1R5
	5.15±0.3	1R2 / 1R5		6.20±0.3	2R2 / 2R7 / 3R3 / 4R7 / 5R6 / 6R8 / 8R2
	5.20±0.3	1R0	OWIHPM0770	6.50±0.3	6R8
	5.30±0.3	R18 / R56 / R68 / R33		6.70±0.3	3R3 / 4R7





➤ Datasheet of OWIHPM0420 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A) MAX	Marking
OWIHPM0420-R10	0.1	M:±20%;N:±30%	100KHz 0.1V	2.5	37.8	18.2	R10
OWIHPM0420-R22	0.22	M:±20%;N:±30%	100KHz 0.1V	4.7	19.4	16.5	R22
OWIHPM0420-R36	0.36	M:±20%;N:±30%	100KHz 0.1V	6.5	16.9	14.6	R36
OWIHPM0420-R40	0.40	M:±20%;N:±30%	100KHz 0.1V	7.9	15.3	13.9	R40
OWIHPM0420-R47	0.47	M:±20%;N:±30%	100KHz 0.1V	8.8	14.2	12.3	R47
OWIHPM0420-R56	0.56	M:±20%;N:±30%	100KHz 0.1V	9.5	13.9	11.8	R56
OWIHPM0420-R60	0.60	M:±20%;N:±30%	100KHz 0.1V	9.7	13.5	11.5	R60
OWIHPM0420-R72	0.72	M:±20%;N:±30%	100KHz 0.1V	11.9	11.8	10.7	R72
OWIHPM0420-1R0	1.00	M:±20%;N:±30%	100KHz 0.1V	15.0	9.5	9.5	1R0
OWIHPM0420-1R2	1.20	M:±20%;N:±30%	100KHz 0.1V	18.1	8.8	8.8	1R2
OWIHPM0420-1R5	1.50	M:±20%;N:±30%	100KHz 0.1V	23.8	7.5	7.5	1R5
OWIHPM0420-1R8	1.80	M:±20%;N:±30%	100KHz 0.1V	28.5	7.3	6.8	1R8
OWIHPM0420-2R2	2.20	M:±20%;N:±30%	100KHz 0.1V	38.70	6.00	5.60	2RM

➤ Datasheet of OWIHPM0430 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A) MAX	Marking
OWIHPM0430-R75	0.75	M:±20%;N:±30%	100KHz 0.1V	10.8	9.00	10.0	R75
OWIHPM0430-3R3	3.30	M:±20%;N:±30%	100KHz 0.1V	28.6	5.50	6.60	3R3
OWIHPM0430-4R7	4.7	M:±20%;N:±30%	100KHz 0.1V	44.1	4.50	5.10	4R7
OWIHPM0430-6R8	6.8	M:±20%;N:±30%	100KHz 0.1V	74.1	3.60	3.90	6R8

➤ Datasheet of OWIHPM0520 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A) MAX	Marking
OWIHPM0520-R15	0.15	M:±20%;N:±30%	100KHz 0.1V	4.60	27.0	18.8	R15
OWIHPM0520-R16	0.16	M:±20%;N:±30%	100KHz 0.1V	4.60	27.0	18.8	R16
OWIHPM0520-R33	0.33	M:±20%;N:±30%	100KHz 0.1V	7.00	24.0	14.4	R33
OWIHPM0520-R47	0.47	M:±20%;N:±30%	100KHz 0.1V	8.10	20.0	14.1	R47
OWIHPM0520-R56	0.56	M:±20%;N:±30%	100KHz 0.1V	9.50	16.0	13.9	R56
OWIHPM0520-R68	0.68	M:±20%;N:±30%	100KHz 0.1V	10.2	14.0	13.4	R68
OWIHPM0520-R80	0.80	M:±20%;N:±30%	100KHz 0.1V	11.8	13.5	13.0	R80
OWIHPM0520-R82	0.82	M:±20%;N:±30%	100KHz 0.1V	12.7	13.0	12.0	R82
OWIHPM0520-1R0	1.00	M:±20%;N:±30%	100KHz 0.1V	13.8	12.8	10.5	1R0
OWIHPM0520-1R2	1.20	M:±20%;N:±30%	100KHz 0.1V	16.3	12.2	9.40	1R2
OWIHPM0520-1R5	1.50	M:±20%;N:±30%	100KHz 0.1V	18.7	11.7	8.80	1R5

➤ Datasheet of OWIHPM0530 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A) MAX	Marking
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OWIHPM0530-R15	0.15	M:±20%;N:±30%	100KHz 0.1V	2.31	32.5	22.2	R15
OWIHPM0530-R16	0.16	M:±20%;N:±30%	100KHz 0.1V	2.33	32.0	22.2	R16
OWIHPM0530-R33	0.33	M:±20%;N:±30%	100KHz 0.1V	3.52	26.0	19.2	R33
OWIHPM0530-R47	0.47	M:±20%;N:±30%	100KHz 0.1V	4.13	24.0	18.4	R47
OWIHPM0530-R56	0.56	M:±20%;N:±30%	100KHz 0.1V	4.52	20.2	17.7	R56
OWIHPM0530-R60	0.60	M:±20%;N:±30%	100KHz 0.1V	4.52	20.0	17.7	R60
OWIHPM0530-R80	0.80	M:±20%;N:±30%	100KHz 0.1V	5.65	18.0	13.1	R80
OWIHPM0530-R82	0.82	M:±20%;N:±30%	100KHz 0.1V	5.78	17.6	12.9	R82
OWIHPM0530-1R0	1.00	M:±20%;N:±30%	100KHz 0.1V	7.60	14.3	12.2	1R0
OWIHPM0530-1R2	1.20	M:±20%;N:±30%	100KHz 0.1V	9.70	13.5	11.0	1R2
OWIHPM0530-1R5	1.5	M:±20%;N:±30%	100KHz 0.1V	11.2	12.5	10.5	1R5
OWIHPM0530-1R8	1.50	M:±20%;N:±30%	100KHz 0.1V	12.7	11.3	10.1	1R8
OWIHPM0530-2R2	1.80	M:±20%;N:±30%	100KHz 0.1V	14.5	9.00	9.70	2R2
OWIHPM0530-3R3	3.30	M:±20%;N:±30%	100KHz 0.1V	23.1	8.70	8.10	3R3
OWIHPM0530-4R7	4.70	M:±20%;N:±30%	100KHz 0.1V	36.3	7.00	5.90	4R7

➤ Datasheet of OWIHPM0550 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM0550-5R6	5.6	M:±20%;N:±30%	100KHz 0.1V	24.2	7.20	7.20	5R6
OWIHPM0550-6R8	6.8	M:±20%;N:±30%	100KHz 0.1V	28.6	6.60	6.40	6R8
OWIHPM0550-8R2	8.2	M:±20%;N:±30%	100KHz 0.1V	32.5	6.10	6.10	8R2
OWIHPM0550-100	10.0	M:±20%;N:±30%	100KHz 0.1V	43.0	5.40	5.00	100

➤ Datasheet of OWIHPM0630 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM0630-R18	0.18	M:±20%;N:±30%	100KHz 0.1V	1.75	39.0	32.0	R18
OWIHPM0630-R33	0.33	M:±20%;N:±30%	100KHz 0.1V	2.50	30.0	25.0	R33
OWIHPM0630-R56	0.56	M:±20%;N:±30%	100KHz 0.1V	3.31	29.0	22.0	R56
OWIHPM0630-R68	0.68	M:±20%;N:±30%	100KHz 0.1V	5.17	25.0	20.0	R68
OWIHPM0630-1R0	1.0	M:±20%;N:±30%	100KHz 0.1V	6.05	23.0	18.0	1R0
OWIHPM0630-1R2	1.2	M:±20%;N:±30%	100KHz 0.1V	7.40	22.0	16.0	1R2
OWIHPM0630-1R5	1.5	M:±20%;N:±30%	100KHz 0.1V	9.13	20.0	15.0	1R5
OWIHPM0630-1R8	1.8	M:±20%;N:±30%	100KHz 0.1V	10.2	18.2	14.0	1R8
OWIHPM0630-2R2	2.2	M:±20%;N:±30%	100KHz 0.1V	12.2	15.9	10.0	2R2
OWIHPM0630-3R3	3.3	M:±20%;N:±30%	100KHz 0.1V	20.8	12.2	8.00	3R3
OWIHPM0630-4R5	4.5	M:±20%;N:±30%	100KHz 0.1V	25.3	10.0	7.00	4R5
OWIHPM0630-4R7	4.7	M:±20%;N:±30%	100KHz 0.1V	26.0	9.00	6.00	4R7

➤ Datasheet of OWIHPM0650 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
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OWIHPM0650-R82	0.82	M:±20%;N:±30%	100KHz 0.1V	4.18	20.0	21.0	R82
OWIHPM0650-1R0	1.00	M:±20%;N:±30%	100KHz 0.1V	4.52	18.0	20.0	1R0
OWIHPM0650-1R2	1.20	M:±20%;N:±30%	100KHz 0.1V	5.83	16.0	18.0	1R2
OWIHPM0650-1R5	1.50	M:±20%;N:±30%	100KHz 0.1V	6.30	14.5	17.0	1R5
OWIHPM0650-1R8	1.80	M:±20%;N:±30%	100KHz 0.1V	7.10	13.5	16.0	1R8
OWIHPM0650-2R2	2.20	M:±20%;N:±30%	100KHz 0.1V	8.50	12.0	13.0	2R2
OWIHPM0650-3R3	3.30	M:±20%;N:±30%	100KHz 0.1V	12.5	10.0	11.0	3R3
OWIHPM0650-4R3	4.30	M:±20%;N:±30%	100KHz 0.1V	16.2	8.50	9.00	4R3
OWIHPM0650-4R7	4.70	M:±20%;N:±30%	100KHz 0.1V	18.4	8.00	8.50	4R7
OWIHPM0650-5R6	5.60	M:±20%;N:±30%	100KHz 0.1V	22.0	8.30	7.00	5R6
OWIHPM0650-6R8	6.80	M:±20%;N:±30%	100KHz 0.1V	25.4	7.00	6.60	6R8
OWIHPM0650-8R2	8.20	M:±20%;N:±30%	100KHz 0.1V	31.5	6.80	6.20	8R2

➤ Datasheet of OWIHPM0660 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM0660-4R7	4.70	M:±20%;N:±30%	100KHz 0.1V	14.4	10.5	11.0	4R7
OWIHPM0660-5R6	5.60	M:±20%;N:±30%	100KHz 0.1V	15.9	9.90	10.0	5R6
OWIHPM0660-6R8	6.80	M:±20%;N:±30%	100KHz 0.1V	20.8	9.20	9.00	6R8
OWIHPM0660-8R2	8.20	M:±20%;N:±30%	100KHz 0.1V	26.4	8.40	8.00	8R2
OWIHPM0660-100	10.0	M:±20%;N:±30%	100KHz 0.1V	29.82	7.60	7.00	100
OWIHPM0660-150	15.0	M:±20%;N:±30%	100KHz 0.1V	43.75	5.80	6.00	150
OWIHPM0660-220	22.0	M:±20%;N:±30%	100KHz 0.1V	60.63	5.60	5.00	220

➤ Datasheet of OWIHPM0730 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM0730-1R0	1.0	M:±20%;N:±30%	100KHz 0.1V	5.00	28.0	21.8	1R0
OWIHPM0730-1R5	1.5	M:±20%;N:±30%	100KHz 0.1V	8.25	23.5	15.3	1R5
OWIHPM0730-2R2	2.2	M:±20%;N:±30%	100KHz 0.1V	13.7	17.0	13.0	2R2
OWIHPM0730-2R7	2.7	M:±20%;N:±30%	100KHz 0.1V	15.4	13.5	11.4	2R7
OWIHPM0730-3R3	3.3	M:±20%;N:±30%	100KHz 0.1V	18.0	13.0	10.0	3R3
OWIHPM0730-4R7	4.7	M:±20%;N:±30%	100KHz 0.1V	26.7	12.2	9.0	4R7
OWIHPM0730-5R6	5.6	M:±20%;N:±30%	100KHz 0.1V	33.2	11.5	7.3	5R6
OWIHPM0730-6R8	6.8	M:±20%;N:±30%	100KHz 0.1V	42.5	11.0	6.80	6R8
OWIHPM0730-8R2	8.2	M:±20%;N:±30%	100KHz 0.1V	48.73	9.00	5.90	8R2

➤ Datasheet of OWIHPM0770 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM0770-3R3	3.3	M:±20%;N:±30%	100KHz 0.1V	9.42	19.4	15.1	3R3
OWIHPM0770-4R7	4.7	M:±20%;N:±30%	100KHz 0.1V	14.26	15.2	13.6	4R7
OWIHPM0770-6R8	6.8	M:±20%;N:±30%	100KHz 0.1V	19.6	12.8	9.20	6R8



### > Datasheet of OWIHPM1508 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM1508-2R0	2.0	M:±20%;N:±30%	100KHz 0.1V	2.20	52.0	40.0	2R0
OWIHPM1508-2R2	2.2	M:±20%;N:±30%	100KHz 0.1V	2.50	49.0	37.0	2R2
OWIHPM1508-3R0	3.0	M:±20%;N:±30%	100KHz 0.1V	3.0	41.0	34.5	3R0
OWIHPM1508-4R2	4.2	M:±20%;N:±30%	100KHz 0.1V	4.70	33.0	27.0	4R2
OWIHPM1508-4R7	4.7	M:±20%;N:±30%	100KHz 0.1V	5.20	32.0	26.5	4R7
OWIHPM1508-5R3	5.3	M:±20%;N:±30%	100KHz 0.1V	5.30	31.0	26.0	5R3
OWIHPM1508-6R2	6.2	M:±20%;N:±30%	100KHz 0.1V	6.50	31.0	23.0	6R2
OWIHPM1508-7R2	7.2	M:±20%;N:±30%	100KHz 0.1V	7.20	29.0	21.0	7R2
OWIHPM1508-8R2	8.2	M:±20%;N:±30%	100KHz 0.1V	7.90	25.0	19.0	8R2

### > Datasheet of OWIHPM1510 series

OW Series P/N	Inductance (uH)	Inductance Tolerance	Test Frequency (KHz)	DCR (mΩ) Max	ISAT (A) TYP.	IRMS (A)MAX	Marking
OWIHPM1510-4R7	4.7	M:±20%;N:±30%	100KHz 0.1V	3.80	39.0	29.0	4R7
OWIHPM1510-5R6	5.6	M:±20%;N:±30%	100KHz 0.1V	4.20	37.0	28.0	5R6
OWIHPM1510-6R8	6.8	M:±20%;N:±30%	100KHz 0.1V	4.60	36.0	26.0	6R8
OWIHPM1510-8R2	8.2	M:±20%;N:±30%	100KHz 0.1V	7.20	30.0	24.0	8R2
OWIHPM1510-100	100	M:±20%;N:±30%	100KHz 0.1V	8.60	26.5	22.0	100
OWIHPM1510-150	150	M:±20%;N:±30%	100KHz 0.1V	11.5	23.0	18.0	150
OWIHPM1510-220	220	M:±20%;N:±30%	100KHz 0.1V	15.8	18.7	14.0	220
OWIHPM1510-330	330	M:±20%;N:±30%	100KHz 0.1V	20.0	16.7	12.0	330

