

GENERAL SPECIFICATION

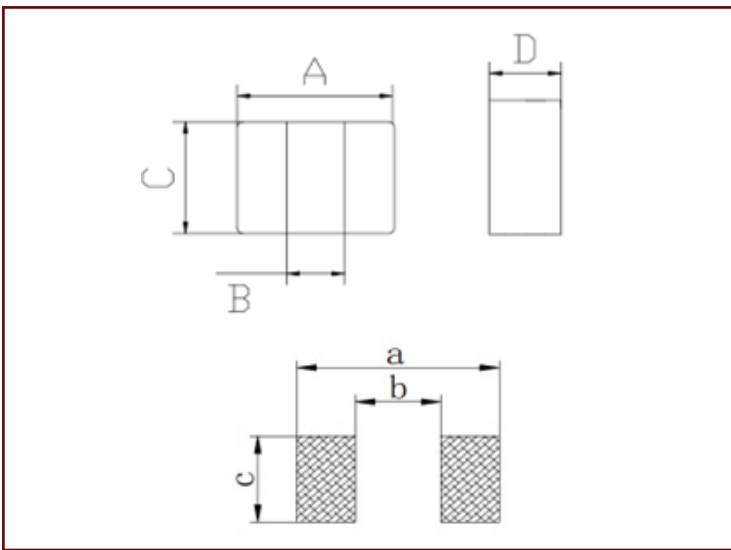
- Alloy T core Molded type
- Operation Temp: -40°C to 125°C
- Storage ambient condition: 0-40°C and <70%
- Test condition: 1MHz, 1.0V
- Inductance tolerance: M±20%, N±30%
- Rated current: inductance data decrease within 30% at Isat current
- Temperature rising: 40°C typ. with Irms
- In compliance with RoHS & REACH directives

FEATURES

- Alloy metal molded with Vinyl thermal spray, better surface compactness
- Full shielded with excellent EMI performance
- Small size with large rated current
- Low loss
- Flat wire winding with small DCR
- Frequency range: 0.5-50MHz
- Less leakage flux
- MSL 1 component

APPLICATIONS

- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules
- Various electrical modules which need small size with large rated current


DIMENSION OF OWIHPM100765 - 404030 MINI COMPOSITE INJECTION MOLDED INDUCTOR

OW P/N	A(mm)	B(mm)	C(mm)	D(mm)	a(mm)	b(mm)	c(mm)
OWIHPM100765	1.0±0.1	0.3±0.2	0.7±0.1	0.65Max	1.0	0.2	0.7
OWIHPM121065	1.2±0.2	0.4±0.2	1.0±0.2	0.65Max	1.3	0.3	1.1
OWIHPM141265	1.4±0.2	0.5±0.2	1.2±0.2	0.65Max	1.5	0.45	1.3
OWIHPM141208	1.4±0.2	0.5±0.2	1.2±0.2	0.80Max	1.5	0.45	1.3
OWIHPM160865	1.6±0.2	0.5±0.2	0.8±0.2	0.65Max	1.6	0.4	0.8
OWIHPM160808	1.6±0.2	0.5±0.2	0.8±0.2	0.80Max	1.7	0.4	0.9
OWIHPM201265	2.0±0.2	0.5±0.2	1.2±0.2	0.65Max	2.1	0.5	1.3
OWIHPM201208	2.0±0.2	0.5±0.2	1.2±0.2	0.80Max	2.1	0.5	1.3
OWIHPM201210	2.0±0.2	0.5±0.2	1.2±0.2	1.00Max	2.1	0.5	1.3
OWIHPM201608	2.0±0.2	0.6±0.2	1.6±0.2	0.80Max	2.1	0.5	1.7
OWIHPM201610	2.0±0.2	0.6±0.2	1.6±0.2	1.00Max	2.1	0.5	1.7
OWIHPM201612	2.0±0.2	0.6±0.2	1.6±0.2	1.20Max	2.1	0.5	1.7
OWIHPM252010	2.5±0.2	0.7±0.2	2.0±0.2	1.00Max	2.6	0.7	2.1

OVIHPM252012	2.5±0.2	0.7±0.2	2.0±0.2	1.20Max	2.6	0.7	2.1
OVIHPM303012	3.0±0.1	1.0±0.2	3.0±0.1	1.20Max	2.9	0.9	2.9
OVIHPM303018	3.0±0.1	1.0±0.2	3.0±0.1	1.80Max	2.9	0.9	2.9
OVIHPM303020	3.0±0.1	1.0±0.2	3.0±0.1	2.00Max	2.9	0.9	2.9
OVIHPM322510	3.2±0.2	0.9±0.2	2.5±0.2	1.00Max	3.25	0.9	2.55
OVIHPM322512	3.2±0.2	0.9±0.2	2.5±0.2	1.20Max	3.25	0.9	2.55
OVIHPM322520	3.2±0.2	0.9±0.2	2.5±0.2	2.00Max	3.25	0.9	2.55
OVIHPM404012	4.1±0.2	1.2±0.2	4.1±0.2	1.20Max	3.9	1.3	3.9
OVIHPM404030	4.1±0.2	1.2±0.2	4.1±0.2	3.00Max	3.9	1.3	3.9

ELECTRICAL CHARACTERISTIC OF **OVIHPM100765 - 404030** MINI COMPOSITE INJECTION MOLDED INDUCTOR

OW P/N Size: 1.0x0.7x0.65mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OVIHPM100765-1R5	1.50	500.00	400.00	0.90	1.10	0.30	0.40
OVIHPM100765-2R6	2.60	900.00	750.00	0.80	1.00	0.40	0.55

OW P/N Size: 1.2x1.0x0.65mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OVIHPM121065-2R2	2.20	340.00	280.00	1.20	1.30	0.90	1.00

OW P/N Size: 1.4x1.2x0.65mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OVIHPM141265-R33	0.33	32.00	26.00	4.00	4.40	4.20	4.40
OVIHPM141265-R47	0.47	45.00	37.00	3.00	3.40	2.70	3.00
OVIHPM141208-R24	0.24	27.00	22.00	5.70	6.00	3.70	4.10
OVIHPM141208-R33	0.33	28.00	23.00	5.00	5.30	3.50	4.00
OVIHPM141208-R47	0.47	35.00	29.00	4.20	4.60	3.30	3.80

OW P/N Size: 1.6x0.8x0.65mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OVIHPM160865-R22	0.22	43.00	35.00	4.30	4.70	3.50	3.80
OVIHPM160865-R47	0.47	82.00	66.00	3.00	3.30	2.00	2.30

OW P/N Size: 1.6x0.8x0.8mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OVIHPM160808-R22	0.22	40.00	33.00	5.00	5.50	3.00	3.40
OVIHPM160808-R24	0.24	41.00	34.00	4.80	5.30	2.90	3.30
OVIHPM160808-R47	0.47	100.00	80.00	3.70	4.10	2.30	2.60
OVIHPM160808-R56	0.56	110.00	85.00	3.50	4.00	1.90	2.20
OVIHPM160808-R68	0.68	130.00	110.00	3.00	3.30	1.90	2.10

OWIHPM160808-1R0	1.00	200.00	180.00	2.60	3.00	1.80	2.10
OWIHPM160808-2R2	2.20	260.00	220.00	1.30	1.50	1.20	1.40

OW P/N Size: 2.0x1.2x0.65mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM201265-1R0	1.00	86.00	78.00	2.50	2.80	2.30	2.60
OWIHPM201265-2R2	2.20	230.00	215.00	1.50	1.80	1.40	1.70

OW P/N Size: 2.0x1.2x0.8mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM201208-R24	0.24	23.00	18.00	6.00	6.50	5.90	6.50
OWIHPM201208-R33	0.33	45.00	33.00	4.80	5.20	4.00	4.30
OWIHPM201208-R47	0.47	50.00	34.00	4.60	5.00	3.30	3.50
OWIHPM201208-R68	0.68	60.00	50.00	3.70	4.20	3.30	3.70
OWIHPM201208-1R0	1.00	70.00	55.00	3.50	4.00	2.90	3.30
OWIHPM201208-1R5	1.50	135.00	118.00	2.50	3.00	1.90	2.20
OWIHPM201208-2R2	2.2	185.00	160.00	2.30	2.60	1.80	2.20
OWIHPM201208-4R7	4.70	325.00	285.00	1.40	1.60	1.50	1.70

OW P/N Size: 2.0x1.2x1.0mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM201210-R10	0.10	13.00	8.00	8.00	8.50	7.00	7.50
OWIHPM201210-R22	0.22	22.00	16.00	6.80	7.30	6.50	7.10
OWIHPM201210-R24	0.24	23.00	17.00	6.70	7.20	6.40	7.00
OWIHPM201210-R33	0.33	32.00	24.00	6.00	6.50	5.00	5.50
OWIHPM201210-R47	0.47	36.00	29.00	5.00	5.50	4.30	4.70
OWIHPM201210-R68	0.68	43.00	37.00	4.50	5.00	4.00	4.30
OWIHPM201210-1R0	1.00	63.00	55.00	3.50	4.00	3.50	3.90
OWIHPM201210-1R5	1.50	85.00	76.00	2.70	3.20	2.60	3.10
OWIHPM201210-2R2	2.2	150.00	130.00	2.40	2.70	1.70	2.00

OW P/N Size: 2.0x1.6x0.8mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM201608-R22	0.22	19.00	14.00	5.60	6.10	5.90	6.60
OWIHPM201608-R24	0.24	20.00	14.00	5.50	6.00	5.80	6.50
OWIHPM201608-R33	0.33	24.00	18.00	5.30	5.80	4.80	5.50
OWIHPM201608-R47	0.47	27.00	24.00	5.00	5.50	4.40	4.60
OWIHPM201608-R68	0.68	44.00	39.00	4.20	4.60	3.50	3.80
OWIHPM201608-1R0	1.00	60.00	53.00	3.10	3.30	3.30	3.60



OWIHPM201608-1R5	1.50	85.00	73.00	2.80	3.00	2.80	3.10
OWIHPM201608-2R2	2.20	140.00	123.00	2.30	2.50	2.00	2.20
OWIHPM201608-3R3	3.30	220.00	200.00	1.80	2.10	1.50	1.80
OWIHPM201608-4R7	4.70	290.00	260.00	1.50	1.70	1.40	1.60
OWIHPM201608-100	10.00	800.00	690.00	0.90	1.00	0.90	1.00

OW P/N Size: 2.0x1.6x1.0mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM201610-R10	0.10	12.00	7.00	8.40	9.00	8.00	8.50
OWIHPM201610-R15	0.15	14.00	8.00	8.00	8.70	7.00	7.60
OWIHPM201610-R22	0.22	18.00	11.00	7.50	8.20	6.30	6.90
OWIHPM201610-R24	0.24	19.00	12.00	7.40	8.00	6.20	6.80
OWIHPM201610-R33	0.33	22.00	17.00	6.50	7.00	5.30	5.70
OWIHPM201610-R47	0.47	25.00	22.00	5.50	6.30	5.00	5.50
OWIHPM201610-R68	0.68	32.00	25.00	4.70	5.20	4.30	4.60
OWIHPM201610-1R0	1.00	43.00	35.00	4.20	4.60	4.10	4.50
OWIHPM201610-1R5	1.50	100.00	80.00	2.90	3.20	2.30	2.60
OWIHPM201610-2R2	2.20	130.00	120.00	2.80	3.00	2.10	2.50
OWIHPM201610-3R3	3.30	170.00	140.00	2.00	2.30	1.50	1.70
OWIHPM201610-4R7	4.70	220.00	190.00	1.80	2.00	1.40	1.60
OWIHPM201610-100	10.00	580.00	483.00	1.10	1.40	0.70	1.00

OW P/N Size: 2.0x1.6x1.2mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM201612-R10	0.10	6.00	4.00	11.50	13.00	10.00	12.00
OWIHPM201612-R15	0.15	10.00	7.50	10.50	12.00	9.00	10.00
OWIHPM201612-R24	0.24	11.00	9.00	8.70	9.20	8.60	9.10
OWIHPM201612-R33	0.33	15.00	10.00	7.30	7.80	7.20	7.70
OWIHPM201612-R47	0.47	17.00	13.00	6.00	6.70	6.00	6.70
OWIHPM201612-R68	0.68	23.00	19.00	5.30	6.00	5.30	6.00
OWIHPM201612-1R0	1.00	36.00	30.00	4.50	5.00	4.50	5.00
OWIHPM201612-1R5	1.50	50.00	40.00	3.50	4.00	3.50	4.00
OWIHPM201612-2R2	2.20	90.00	70.00	2.70	3.10	2.90	3.30
OWIHPM201612-3R3	3.30	165.00	135.00	2.30	2.70	2.00	2.40

OW P/N Size: 2.5x2.0x1.0mm	Inductance (μ H)	DCR max. ($m\Omega$)	DCR typ. ($m\Omega$)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM252010-R22	0.22	17.00	12.00	7.90	8.60	6.50	6.80
OWIHPM252010-R24	0.24	17.50	12.00	7.80	8.50	6.40	6.70



OWIHPM252010-R33	0.33	19.00	13.00	7.20	7.60	6.20	6.50
OWIHPM252010-R47	0.47	22.00	15.00	6.50	6.90	5.60	6.10
OWIHPM252010-R68	0.68	27.00	23.00	5.50	5.90	5.00	5.60
OWIHPM252010-1R0	1.00	30.00	25.00	4.80	5.30	4.10	4.50
OWIHPM252010-1R5	1.50	55.00	45.00	3.90	4.30	3.00	3.40
OWIHPM252010-2R2	2.20	70.00	62.00	3.00	3.30	2.10	2.40
OWIHPM252010-3R3	3.30	100.00	86.00	2.50	2.80	2.00	2.30
OWIHPM252010-4R7	4.70	180.00	160.00	2.00	2.60	1.60	2.00
OWIHPM252010-6R8	6.80	320.00	270.00	1.90	2.40	1.40	1.60
OWIHPM252010-100	10.00	560.00	500.00	1.40	1.55	0.95	1.05
OWIHPM252010-220	22.00	1300.00	1100.00	0.90	1.10	0.60	0.85

OW P/N Size: 2.5x2.0x1.2mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM252012-R10	0.10	10.00	6.00	12.50	13.50	10.50	12.00
OWIHPM252012-R15	0.15	11.00	7.00	12.00	13.00	10.00	11.50
OWIHPM252012-R22	0.22	14.00	9.00	9.00	9.60	7.60	8.20
OWIHPM252012-R24	0.24	15.00	10.00	8.80	9.30	7.50	8.00
OWIHPM252012-R33	0.33	17.00	11.00	7.80	8.30	6.40	6.80
OWIHPM252012-R47	0.47	19.00	13.00	7.00	7.50	6.00	6.50
OWIHPM252012-R68	0.68	23.00	17.00	6.00	6.50	5.50	6.30
OWIHPM252012-R82	0.82	24.00	19.00	5.80	6.50	5.30	5.80
OWIHPM252012-1R0	1.00	42.00	35.00	5.00	5.60	3.60	4.00
OWIHPM252012-1R5	1.50	50.00	44.00	4.10	4.50	3.20	3.70
OWIHPM252012-2R2	2.20	65.00	55.00	3.30	3.80	2.70	3.00
OWIHPM252012-3R3	3.30	97.00	80.00	2.70	3.00	1.80	2.30
OWIHPM252012-4R7	4.70	170.00	150.00	2.10	2.40	1.50	1.80
OWIHPM252012-6R8	6.80	270.00	245.00	1.70	2.00	1.40	1.60
OWIHPM252012-100	10.00	400.00	330.00	1.45	1.60	1.05	1.20

OW P/N Size: 2.5x2.0x1.2mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM303018-R22	0.22	7.00	5.50	16.00	17.00	9.00	10.00
OWIHPM303018-1R5	1.50	26.00	20.00	7.00	8.00	6.40	6.80
OWIHPM303018-4R7	4.70	87.00	72.00	4.20	4.70	3.00	3.40



OW P/N Size: 3.0x3.0x2.0mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM303020-R50	0.50	12.00	9.00	13.00	15.00	8.00	9.00
OWIHPM303020-R68	0.68	16.00	13.00	11.00	13.00	7.80	8.50
OWIHPM303020-1R0	1.00	20.00	14.00	7.30	8.00	6.00	6.50
OWIHPM303020-1R5	1.50	25.00	19.00	6.50	7.00	5.80	6.30
OWIHPM303020-2R2	2.20	45.00	37.00	5.50	6.00	4.30	4.70
OWIHPM303020-3R3	3.30	63.00	52.00	5.40	5.90	4.00	4.50
OWIHPM303020-100	10.00	160.00	135.00	3.30	3.80	2.20	2.50

OW P/N Size: 3.2x2.5x1.0mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM322510-R33	0.33	15.00	11.00	7.80	8.30	7.80	8.30
OWIHPM322510-R47	0.47	22.00	17.00	7.60	8.30	5.90	6.40
OWIHPM322510-R68	0.68	28.00	22.00	7.00	7.50	5.70	6.20
OWIHPM322510-1R0	1.00	30.00	25.00	5.30	6.00	4.90	5.40
OWIHPM322510-1R5	1.50	42.00	34.00	4.40	5.00	3.60	4.00
OWIHPM322510-2R2	2.20	66.00	55.00	3.50	4.00	3.40	3.70
OWIHPM322510-3R3	3.30	120.00	105.00	3.30	3.70	2.30	2.70
OWIHPM322510-4R7	4.70	140.00	125.00	2.50	2.80	1.90	2.30
OWIHPM322510-6R8	6.80	320.00	290.00	2.00	2.40	1.60	1.90
OWIHPM322510-100	10.00	365.00	325.00	1.80	2.20	1.50	1.80

OW P/N Size: 3.2x2.5x1.2mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM322512-R10	0.10	7.00	5.20	16.50	18.00	11.00	12.00
OWIHPM322512-R22	0.22	10.00	6.60	11.00	11.50	8.70	9.20
OWIHPM322512-R24	0.24	12.00	7.00	10.50	11.00	8.50	9.00
OWIHPM322512-R33	0.33	14.00	9.00	9.50	10.00	8.10	8.40
OWIHPM322512-R47	0.47	19.00	14.00	8.20	8.60	7.20	7.50
OWIHPM322512-R68	0.68	23.00	18.00	7.70	8.10	6.80	7.30
OWIHPM322512-1R0	1.00	30.00	26.00	5.80	6.60	4.80	5.30
OWIHPM322512-1R5	1.50	44.00	37.00	4.70	5.10	4.30	4.70
OWIHPM322512-2R2	2.20	70.00	58.00	4.20	4.60	3.00	3.60
OWIHPM322512-3R3	3.30	95.00	75.00	3.20	3.70	2.50	2.90
OWIHPM322512-4R7	4.70	135.00	115.00	2.60	2.90	2.00	2.30
OWIHPM322512-6R8	6.80	210.00	177.00	2.40	2.80	1.90	2.10
OWIHPM322512-100	10.00	230.00	210.00	1.90	2.30	1.80	2.00



OW P/N Size: 3.2x2.5x2.0mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM322520-1R0	1.00	17.50	15.00	8.30	9.00	7.50	8.20

OW P/N Size: 3.2x3.0x1.2mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM323012-100	10.00	220.00	192.00	2.00	2.30	1.90	2.30

OW P/N Size: 4.0x4.0x1.2mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM404012-1R0	1.00	25.00	21.00	10.00	11.00	5.50	6.30

OW P/N Size: 4.0x4.0x3.0mm	Inductance (uH)	DCR max. (mΩ)	DCR typ. (mΩ)	ISAT (A) max.	ISAT (A) typ.	IRMS (A) max.	IRMS (A) typ.
OWIHPM404030-4R7	4.70	46.00	41.00	6.00	7.00	4.00	4.30

NOTE:

1. Inductance tolerance: M±20%, N±30%
2. Inductance test condition: 1MHz 1.0V

Please contact one of our sales representatives if you need other inductances.

