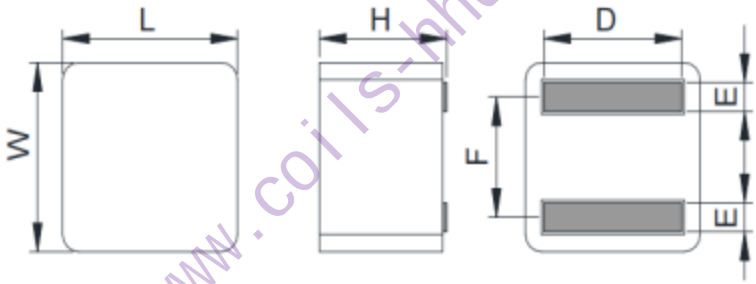
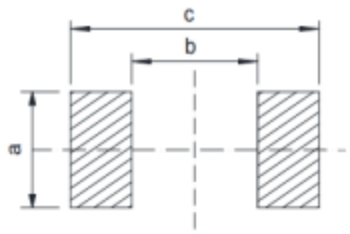
Features:

- Alloy powder DC-DC Converter shielded inductors.
- A wide range of product line up is available to meet the various requirements.
- High saturation current.
- Flat wire, Super low DCR, high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- Ideally used in flat TV, LCD display, AV devices, car navigation, LED lighting, smart screen, power modules.
- RoHS compliant.

Appearance dimensions (mm, dimensions without tolerance are typical):



Recommended Land Patterns



Type		L	W	H	D	E	F	a	b	c	MPQ (pcs)
Sumida	HHd										
WCDMT0420	MTA0402	4.1	4.1	2.15	3.4	0.88	1.6	3.8	1.4	3.4	3000
WCDMT0430	MTA0403	4.1	4.1	3.1	3.4	0.88	1.6	3.8	1.4	3.4	2000
WCDMT0520	MTA0502	5.5	5.5	2.15	4.3	1.1	2.3	4.7	2.0	4.5	3000
WCDMT0530	MTA0503	5.5	5.5	3.1	4.3	1.1	2.3	4.7	2.0	4.5	2000
WCDMT0550	MTA0505	5.5	5.5	5.0	4.3	1.1	2.3	4.7	2.0	4.5	1500
WCDMT0630	MTA0603	6.6	6.4	3.1	5.3	1.4	2.6	5.6	2.5	5.6	1000
WCDMT0650	MTA0605	6.6	6.4	5.0	5.3	1.4	2.6	5.6	2.5	5.6	800
WCDMT0660	MTA0606	6.6	6.4	6.0	5.3	1.4	2.6	5.6	2.5	5.6	750
WCDMT0730	MTA0703	7.8	7.6	3.1	6.5	1.75	3.15	7.2	2.8	7.4	1500
WCDMT0770	MTA0707	7.8	7.6	7.0	6.5	1.75	3.15	7.2	2.8	7.4	700
WCDMT1010	MTA1010	11.9	11.0	10.0	9.0	2.4	6.6	11.0	3.7	10.5	300
WCDMT1580	MTA1508	16.5	15.5	8.0	13.2	3.2	7.4	15.0	6.0	15.0	200
WCDMT1510	MTA1510	16.5	15.5	10.0	13.2	3.2	7.4	15.0	6.0	15.0	150

WCDMT0420, MTA0402 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0420-R10M	MTA0402-R10M	0.10	20%	2.42	28.10	33.00	15.30	18.00
WCDMT0420-R22M	MTA0402-R22M	0.22	20%	4.60	16.00	18.80	14.30	16.80
WCDMT0420-R36M	MTA0402-R36M	0.36	20%	6.30	12.80	15.00	12.30	14.50
WCDMT0420-R40M	MTA0402-R40M	0.40	20%	7.73	11.50	13.50	11.90	14.00
WCDMT0420-R47M	MTA0402-R47M	0.47	20%	8.58	11.10	13.00	10.60	12.50
WCDMT0420-R56M	MTA0402-R56M	0.56	20%	9.30	10.70	12.60	10.20	12.00
WCDMT0420-R60M	MTA0402-R60M	0.60	20%	9.52	10.50	12.30	9.90	11.70
WCDMT0420-R72M	MTA0402-R72M	0.72	20%	11.6	9.00	10.60	8.90	10.50
WCDMT0420-1R0M	MTA0402-1R0M	1.00	20%	14.6	7.50	8.80	8.20	9.60
WCDMT0420-1R2M	MTA0402-1R2M	1.20	20%	17.9	6.60	7.80	7.70	9.00
WCDMT0420-1R5M	MTA0402-1R5M	1.50	20%	23.5	6.30	7.40	6.50	7.60
WCDMT0420-1R8M	MTA0402-1R8M	1.80	20%	28.0	6.00	7.00	6.00	7.00
WCDMT0420-2R2M	MTA0402-2R2M	2.20	20%	38.7	5.10	6.00	4.80	5.60

WCDMT0430, MTA0403 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0430-R75M	MTA0403-R75M	0.75	20%	10.8	7.70	9.00	8.50	10.00
WCDMT0430-1R0M	MTA0403-1R0M	1.00	20%	12.8	8.50	10.00	8.50	10.00
WCDMT0430-2R2M	MTA0403-2R2M	2.20	20%	20.8	6.00	7.00	6.10	7.20
WCDMT0430-3R3M	MTA0403-3R3M	3.30	20%	28.6	4.70	5.50	5.60	6.60
WCDMT0430-4R7M	MTA0403-4R7M	4.70	20%	44.1	3.80	4.50	4.30	5.10
WCDMT0430-6R8M	MTA0403-6R8M	6.80	20%	74.1	3.10	3.60	3.30	3.90

WCDMT0520, MTA0502 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0520-R15M	MTA0502-R15M	0.15	20%	4.60	23.00	27.00	16.00	18.80
WCDMT0520-R33M	MTA0502-R33M	0.33	20%	7.00	20.40	24.00	12.20	14.40
WCDMT0520-R47M	MTA0502-R47M	0.47	20%	8.10	17.00	20.00	12.00	14.10
WCDMT0520-R56M	MTA0502-R56M	0.56	20%	9.50	13.60	16.00	11.80	13.90
WCDMT0520-R68M	MTA0502-R68M	0.68	20%	10.2	11.90	14.00	11.40	13.40
WCDMT0520-R82M	MTA0502-R82M	0.82	20%	12.7	11.10	13.00	10.20	12.00
WCDMT0520-1R0M	MTA0502-1R0M	1.00	20%	13.8	10.90	12.80	8.90	10.50
WCDMT0520-1R2M	MTA0502-1R2M	1.20	20%	16.3	10.40	12.20	8.00	9.40

WCDMT0530, MTA0503 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0530-R15M	MTA0503-R15M	0.15	20%	2.31	27.60	32.50	18.90	22.20
WCDMT0530-R33M	MTA0503-R33M	0.33	20%	3.52	22.10	26.00	16.30	19.20
WCDMT0530-R47M	MTA0503-R47M	0.47	20%	4.13	20.40	24.00	15.60	18.40
WCDMT0530-R56M	MTA0503-R56M	0.56	20%	4.52	17.20	20.20	15.00	17.70
WCDMT0530-R60M	MTA0503-R60M	0.60	20%	4.52	17.00	20.00	15.00	17.70
WCDMT0530-R82M	MTA0503-R82M	0.82	20%	5.78	15.00	17.60	11.00	12.90
WCDMT0530-1R0M	MTA0503-1R0M	1.00	20%	7.60	12.20	14.30	10.40	12.20
WCDMT0530-1R2M	MTA0503-1R2M	1.20	20%	9.70	11.50	13.50	9.40	11.00
WCDMT0530-1R5M	MTA0503-1R5M	1.50	20%	11.2	10.60	12.50	8.90	10.50
WCDMT0530-1R8M	MTA0503-1R8M	1.80	20%	12.7	9.60	11.30	8.60	10.10
WCDMT0530-2R2M	MTA0503-2R2M	2.20	20%	14.5	7.70	9.00	8.20	9.70
WCDMT0530-3R3M	MTA0503-3R3M	3.30	20%	23.1	7.40	8.70	6.90	8.10
WCDMT0530-4R7M	MTA0503-4R7M	4.70	20%	36.3	6.00	7.00	5.00	5.90

WCDMT0550, MTA0505 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0550-5R6M	MTA0505-5R6M	5.60	20%	24.2	6.10	7.20	6.10	7.20
WCDMT0550-6R8M	MTA0505-6R8M	6.80	20%	28.6	5.60	6.60	5.40	6.40
WCDMT0550-8R2M	MTA0505-8R2M	8.20	20%	32.5	5.20	6.10	5.20	6.10
WCDMT0550-100M	MTA0505-100M	10.0	20%	43.0	4.60	5.40	4.30	5.00

WCDMT0630, MTA0603 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0630-R18M	MTA0603-R18M	0.18	20%	1.75	33.20	39.00	27.20	32.00
WCDMT0630-R33M	MTA0603-R33M	0.33	20%	2.50	25.50	30.00	21.30	25.00
WCDMT0630-R56M	MTA0603-R56M	0.56	20%	3.31	24.70	29.00	18.70	22.00
WCDMT0630-R68M	MTA0603-R68M	0.68	20%	5.17	21.30	25.00	17.00	20.00
WCDMT0630-1R0M	MTA0603-1R0M	1.00	20%	6.05	19.60	23.00	15.30	18.00
WCDMT0630-1R2M	MTA0603-1R2M	1.20	20%	7.40	18.70	22.00	13.60	16.00
WCDMT0630-1R5M	MTA0603-1R5M	1.50	20%	9.13	17.00	20.00	12.80	15.00
WCDMT0630-1R8M	MTA0603-1R8M	1.80	20%	10.2	15.50	18.20	11.90	14.00
WCDMT0630-2R2M	MTA0603-2R2M	2.20	20%	12.2	13.50	15.90	8.50	10.00
WCDMT0630-3R3M	MTA0603-3R3M	3.30	20%	20.8	10.40	12.20	6.80	8.00
WCDMT0630-4R5M	MTA0603-4R5M	4.50	20%	25.3	8.50	10.00	6.00	7.00
WCDMT0630-4R7M	MTA0603-4R7M	4.70	20%	26.0	7.70	9.00	5.10	6.00

WCDMT0650, MTA0605 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0650-R82M	MTA0605-R82M	0.82	20%	4.18	17.00	20.00	17.90	21.00
WCDMT0650-1R0M	MTA0605-1R0M	1.00	20%	4.52	15.30	18.00	17.00	20.00
WCDMT0650-1R2M	MTA0605-1R2M	1.20	20%	5.83	13.60	16.00	15.30	18.00
WCDMT0650-1R5M	MTA0605-1R5M	1.50	20%	6.30	12.30	14.50	14.50	17.00
WCDMT0650-1R8M	MTA0605-1R8M	1.80	20%	7.10	11.50	13.50	13.60	16.00
WCDMT0650-2R2M	MTA0605-2R2M	2.20	20%	8.50	10.20	12.00	11.10	13.00
WCDMT0650-3R3M	MTA0605-3R3M	3.30	20%	12.5	8.50	10.00	9.40	11.00
WCDMT0650-4R3M	MTA0605-4R3M	4.30	20%	16.2	7.20	8.50	7.70	9.00
WCDMT0650-4R7M	MTA0605-4R7M	4.70	20%	18.4	6.80	8.00	7.20	8.50
WCDMT0650-5R6M	MTA0605-5R6M	5.60	20%	22.0	7.10	8.30	6.00	7.00
WCDMT0650-6R8M	MTA0605-6R8M	6.80	20%	25.4	6.00	7.00	5.60	6.60
WCDMT0650-8R2M	MTA0605-8R2M	8.20	20%	31.5	5.80	6.80	5.30	6.20

WCDMT0660, MTA0606 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0660-4R7M	MTA0606-4R7M	4.70	20%	14.4	8.90	10.50	9.40	11.00
WCDMT0660-5R6M	MTA0606-5R6M	5.60	20%	15.9	8.40	9.90	8.50	10.00
WCDMT0660-6R8M	MTA0606-6R8M	6.80	20%	20.8	7.80	9.20	7.70	9.00
WCDMT0660-8R2M	MTA0606-8R2M	8.20	20%	26.4	7.10	8.40	6.80	8.00
WCDMT0660-100M	MTA0606-100M	10.0	20%	29.8	6.50	7.60	6.00	7.00
WCDMT0660-150M	MTA0606-150M	15.0	20%	43.8	4.90	5.80	5.10	6.00
WCDMT0660-220M	MTA0606-220M	22.0	20%	60.6	4.80	5.60	4.30	5.00

WCDMT0730, MTA0703 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0730-1R0M	MTA0703-1R0M	1.00	20%	5.00	23.80	28.00	18.50	21.80
WCDMT0730-1R5M	MTA0703-1R5M	1.50	20%	8.25	20.00	23.50	13.00	15.30
WCDMT0730-2R2M	MTA0703-2R2M	2.20	20%	13.7	14.50	17.00	11.10	13.00
WCDMT0730-2R7M	MTA0703-2R7M	2.70	20%	15.4	11.50	13.50	9.70	11.40
WCDMT0730-3R3M	MTA0703-3R3M	3.30	20%	18.0	11.10	13.00	8.50	10.00
WCDMT0730-4R7M	MTA0703-4R7M	4.70	20%	26.7	10.40	12.20	7.70	9.00
WCDMT0730-5R6M	MTA0703-5R6M	5.60	20%	33.2	9.80	11.50	6.20	7.30
WCDMT0730-6R8M	MTA0703-6R8M	6.80	20%	42.5	9.40	11.00	5.80	6.80
WCDMT0730-8R2M	MTA0703-8R2M	8.20	20%	48.7	7.70	9.00	5.00	5.90

WCDMT0770, MTA0707 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT0770-3R3M	MTA0707-3R3M	3.30	20%	9.42	16.50	19.40	12.80	15.10
WCDMT0770-4R7M	MTA0707-4R7M	4.70	20%	14.3	12.90	15.20	11.60	13.60
WCDMT0770-6R8M	MTA0707-6R8M	6.80	20%	19.6	10.90	12.80	7.80	9.20
WCDMT0770-3R3M	MTA0707-3R3M	3.30	20%	9.42	16.50	19.40	12.80	15.10
WCDMT0770-4R7M	MTA0707-4R7M	4.70	20%	14.3	12.90	15.20	11.60	13.60
WCDMT0770-6R8M	MTA0707-6R8M	6.80	20%	19.6	10.90	12.80	7.80	9.20

WCDMT1010, MTA1010 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT1010-1R0M	MTA1010-1R0M	1.00	20%	1.20	42.50	50.00	34.00	40.00
WCDMT1010-2R2M	MTA1010-2R2M	2.20	20%	2.80	28.90	34.00	27.20	32.00
WCDMT1010-3R3M	MTA1010-3R3M	3.30	20%	4.10	23.30	27.40	21.30	25.00
WCDMT1010-4R7M	MTA1010-4R7M	4.70	20%	5.70	21.60	25.40	20.40	24.00
WCDMT1010-5R6M	MTA1010-5R6M	5.60	20%	7.20	20.10	23.60	18.00	21.20
WCDMT1010-6R8M	MTA1010-6R8M	6.80	20%	8.90	18.50	21.80	15.70	18.50
WCDMT1010-8R2M	MTA1010-8R2M	8.20	20%	12.4	15.60	18.30	14.50	17.10
WCDMT1010-100M	MTA1010-100M	10.0	20%	13.8	14.90	17.50	13.20	15.50
WCDMT1010-150M	MTA1010-150M	15.0	20%	19.3	13.20	15.50	11.70	13.80

WCDMT1580, MTA1508 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT1580-2R0M	MTA1508-2R0M	2.00	20%	2.20	44.20	52.00	34.00	40.00
WCDMT1580-2R2M	MTA1508-2R2M	2.20	20%	2.50	41.70	49.00	31.50	37.00
WCDMT1580-3R0M	MTA1508-3R0M	3.00	20%	3.00	34.90	41.00	29.30	34.50
WCDMT1580-4R2M	MTA1508-4R2M	4.20	20%	4.70	28.10	33.00	23.00	27.00
WCDMT1580-4R7M	MTA1508-4R7M	4.70	20%	5.20	27.20	32.00	22.50	26.50
WCDMT1580-5R3M	MTA1508-5R3M	5.30	20%	5.30	26.40	31.00	22.10	26.00
WCDMT1580-6R2M	MTA1508-6R2M	6.20	20%	6.50	26.40	31.00	19.60	23.00
WCDMT1580-7R2M	MTA1508-7R2M	7.20	20%	7.20	24.70	29.00	17.90	21.00
WCDMT1580-8R2M	MTA1508-8R2M	8.20	20%	7.90	21.30	25.00	16.20	19.00

WCDMT1510, MTA1510 Electrical Characteristics

Part No.		Inductance (uH)	Tolerance (%)	DCR (mΩ)Max.	Isat (A)Max.	Isat (A)Typ.	Irms (A)Max.	Irms (A)Typ.
Sumida	HHd							
WCDMT1510-4R7M	MTA1510-4R7M	4.70	20%	3.80	33.20	39.00	24.70	29.00
WCDMT1510-5R6M	MTA1510-5R6M	5.60	20%	4.20	31.50	37.00	23.80	28.00
WCDMT1510-6R8M	MTA1510-6R8M	6.80	20%	4.60	30.60	36.00	22.10	26.00
WCDMT1510-8R2M	MTA1510-8R2M	8.20	20%	7.20	25.50	30.00	20.40	24.00
WCDMT1510-100M	MTA1510-100M	10.0	20%	8.60	22.50	26.50	18.70	22.00
WCDMT1510-150M	MTA1510-150M	15.0	20%	11.5	19.60	23.00	15.30	18.00
WCDMT1510-220M	MTA1510-220M	22.0	20%	15.8	15.90	18.70	11.90	14.00
WCDMT1510-330M	MTA1510-330M	33.0	20%	20.0	14.20	16.70	10.20	12.00

Remarks:
* All test data is referenced to 25℃ ambient temperature .
* Test equipment: VC4092B, TH2516B, HP4284/HP4284A ,HP4285 or equivalent .
* Inductance: at 100kHz/1.0Vrms.
* Isat: DC current at which the inductance drops 30% from its initial value without current.
* Irms: DC current that causes the temperature rise (△T=40℃) from 25℃.