

SMD Power Inductors

Application Field

Notebook, Low voltage DC-DC converter, power supply applications PDA.

Features

- Open Magnetic circuit construction
- Compact and thin
- Rugged self-leaded construction.
- 8mm high for large current and low DCR.(MDT2207)

Dimensions and footprint (Unit : mm)

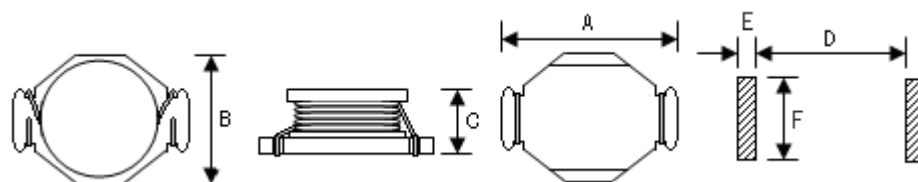


Fig-1

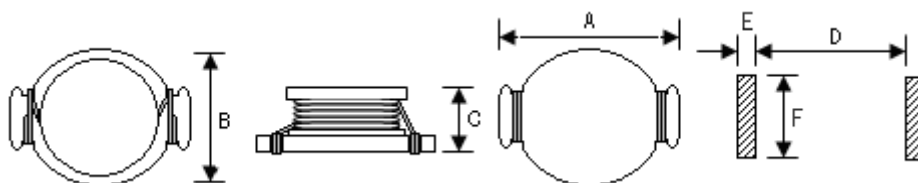


Fig-2

Unit : mm

Size	A	B	C	D	E	F	Fig
MDT-0905	9.00 max	6.10 max	5.20 max	5.08	2.00	4.50	1
MDT-1306	13.20 max	9.91 max	6.35 max	9.00	2.20	5.50	2
MDT-1906	19.40 max	13.30 max	6.80 max	11.70	3.80	8.00	2
MDT-2207	22.30 max	16.20 max	8.00 max	13.10	4.20	9.50	2

Part Number Code

MDT - 1306 - 3R3 M
 1 2 3 4

- 1 - Product Code
- 2 - Dimensions Code
- 3 - Inductance = Decimal Point
- 4 - Tolerance : M = ±20%

Specification

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDT-0905-R47	0.47	100KHz	0.010	6.00
MDT-0905-1R0	1.0	100KHz	0.018	4.40
MDT-0905-1R5	1.5	100KHz	0.020	4.20
MDT-0905-2R2	2.2	100KHz	0.035	3.10
MDT-0905-3R3	3.3	100KHz	0.043	2.90
MDT-0905-4R7	4.7	100KHz	0.054	2.20
MDT-0905-6R8	6.8	100KHz	0.090	1.70
MDT-0905-100	10	100KHz	0.111	1.50
MDT-0905-150	15	100KHz	0.175	1.20
MDT-0905-220	22	100KHz	0.255	1.00
MDT-0905-330	33	100KHz	0.370	0.82
MDT-0905-470	47	100KHz	0.474	0.72
MDT-0905-680	68	100KHz	0.750	0.58
MDT-0905-101	100	100KHz	1.110	0.47

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDT-1306-R47	0.47	100KHz	0.005	10.60
MDT-1306-1R0	1.0	100KHz	0.006	10.00
MDT-1306-1R5	1.5	100KHz	0.008	9.00
MDT-1306-2R2	2.2	100KHz	0.011	7.40
MDT-1306-2R7	2.7	100KHz	0.012	6.60
MDT-1306-3R3	3.3	100KHz	0.014	5.90
MDT-1306-4R7	4.7	100KHz	0.018	4.80
MDT-1306-6R8	6.8	100KHz	0.023	4.50
MDT-1306-100	10	100KHz	0.030	4.30
MDT-1306-150	15	100KHz	0.045	3.60
MDT-1306-220	22	100KHz	0.064	2.90
MDT-1306-330	33	100KHz	0.099	2.40
MDT-1306-470	47	100KHz	0.146	1.90

Part No.	Inductance (μ H)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDT-1306-680	68	100KHz	0.190	1.70
MDT-1306-101	100	100KHz	0.277	1.40
MDT-1306-151	150	100KHz	0.424	1.10
MDT-1306-221	220	100KHz	0.636	0.93
MDT-1306-331	330	100KHz	0.977	0.76

Part No.	Inductance (μ H)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDT-1906-R47	0.47	100KHz	0.002	16.00
MDT-1906-1R0	1.0	100KHz	0.004	12.50
MDT-1906-1R5	1.5	100KHz	0.006	10.00
MDT-1906-2R2	2.2	100KHz	0.008	9.20
MDT-1906-3R3	3.3	100KHz	0.009	8.00
MDT-1906-4R7	4.7	100KHz	0.012	6.50
MDT-1906-6R8	6.8	100KHz	0.019	5.80
MDT-1906-100	10	100KHz	0.027	4.30
MDT-1906-150	15	100KHz	0.032	3.90
MDT-1906-220	22	100KHz	0.050	3.10
MDT-1906-330	33	100KHz	0.069	2.40
MDT-1906-470	47	100KHz	0.109	1.90
MDT-1906-680	68	100KHz	0.156	1.60
MDT-1906-101	100	100KHz	0.206	1.40

Part No.	Inductance (μ H)	Freq. (Hz)	DCR(Ω) max	IDC(A) max
MDT-2207-R47	0.47	100KHz	0.002	19.20
MDT-2207-1R0	1.0	100KHz	0.003	17.30
MDT-2207-1R5	1.5	100KHz	0.004	13.40
MDT-2207-2R2	2.2	100KHz	0.005	12.00
MDT-2207-3R3	3.3	100KHz	0.008	10.00
MDT-2207-4R7	4.7	100KHz	0.014	8.60
MDT-2207-6R0	6.0	100KHz	0.017	7.70
MDT-2207-6R8	6.8	100KHz	0.018	7.20
MDT-2207-100	10	100KHz	0.026	6.80
MDT-2207-150	15	100KHz	0.032	5.50
MDT-2207-220	22	100KHz	0.040	4.50
MDT-2207-330	33	100KHz	0.060	3.70
MDT-2207-470	47	100KHz	0.074	3.10
MDT-2207-680	68	100KHz	0.120	2.40
MDT-2207-101	100	100KHz	0.170	2.00