

FEATURES

- RoHS compliant.
- Super low resistance, ultra high current rating.
- High performance (I sat) realized by metal dust core.
- Frequency Range: up to 1MHz.

APPLICATION

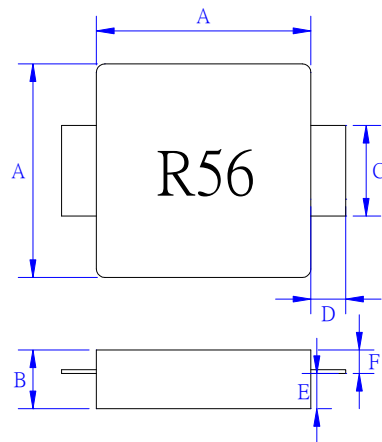
- PDA, notebook, desktop, and server applications.
- Low profile, high current power supplies.
- DC/DC converters in distributed power systems.
- DC/DC converters for field programmable gate array.

PRODUCT IDENTIFICATION

① ② ③ ④ ⑤
MMD - 10CF - 1R0 M - M1F

- ① Product Code
- ② Dimensions: 10CF = 10 x 10 x 3.6 mm
- ③ Inductance Code: 1R0 = 1.0 μ H
- ④ Tolerance: M = $\pm 20\%$
- ⑤ Series Type : M1F Type

PRODUCT DIMENSION



PRODUCT NO.	A	B	C	D	E	F
MMD-06CF-Series-M1F	6.6 \pm 0.15	3.6 Max	3.0 \pm 0.3	2.0 \pm 0.3	\leq 2.1	1.3 \pm 0.2
MMD-10CF-Series-M1F	10.15 \pm 0.15	3.6 \pm 0.2	3.0 \pm 0.3	2.0 \pm 0.2	\leq 2.3	1.3 \pm 0.2
MMD-12CE-Series-M1F	12.8 \pm 0.2	3.5 \pm 0.2	3.0 \pm 0.3	2.0 \pm 0.2	\leq 2.3	1.3 \pm 0.2

MMD-06CF SPECIFICATION

PART NUMBER	INDUCTANCE Lo(μ H) \pm 20% @0A	R _{dc} (m Ω)		HEAT RATING CURRENT(I _{dc}) DC AMPS ¹	SATURATION CURRENT(I _{sat}) DC AMPS ²
		Typ.	Max		
MMD-06CF-R47M-M1F	0.47	3.9	4.2	18	26
MMD-06CF-R68M-M1F	0.68	4.7	5.3	15.5	25
MMD-06CF-R82M-M1F	0.82	5.7	7.2	13	24
MMD-06CF-1R0M-M1F	1.0	9	10	11	22
MMD-06CF-1R5M-M1F	1.5	12	14	9	18

MMD-10CF SPECIFICATION

PART NUMBER	INDUCTANCE Lo(μ H) \pm 20% @0A	R _{dc} (m Ω)		HEAT RATING CURRENT(I _{dc}) DC AMPS ¹	SATURATION CURRENT(I _{sat}) DC AMPS ²
		Typ.	Max		
MMD-10CF-R47M-M1F	0.47	2.22	2.40	23.4	42
MMD-10CF-R56M-M1F	0.56	2.61	2.82	21.5	39
MMD-10CF-R68M-M1F	0.68	3.07	3.32	20.0	36
MMD-10CF-R82M-M1F	0.82	3.19	3.44	19.5	35.5
MMD-10CF-1R0M-M1F	1.0	3.46	3.74	18.5	34

MMD-12CF SPECIFICATION

PART NUMBER	INDUCTANCE Lo(μ H) \pm 20% @0A	R _{dc} (m Ω)		HEAT RATING CURRENT(I _{dc}) DC AMPS ¹	SATURATION CURRENT(I _{sat}) DC AMPS ²
		Typ.	Max		
MMD-12CE-R33M-M1F	0.33	1.3	1.5	36.5	62
MMD-12CE-R47M-M1F	0.47	1.6	2.0	32	55
MMD-12CE-R68M-M1F	0.68	2.3	2.5	28	49
MMD-12CE-R82M-M1F	0.82	2.6	3.0	26	45
MMD-12CE-1R0M-M1F	1.0	3.3	3.5	24	40

NOTES:

1. I_{dc} : DC current (A) that will cause an approximate Δ T of 40°C
2. I_{sat} : DC current (A) that will cause Lo to drop approximately 20%