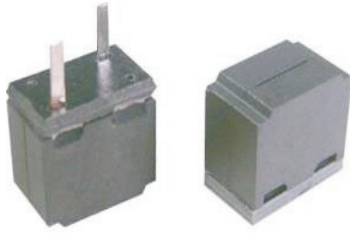


Class D Dual Inductor MDP Series AEC-Q200 qualified

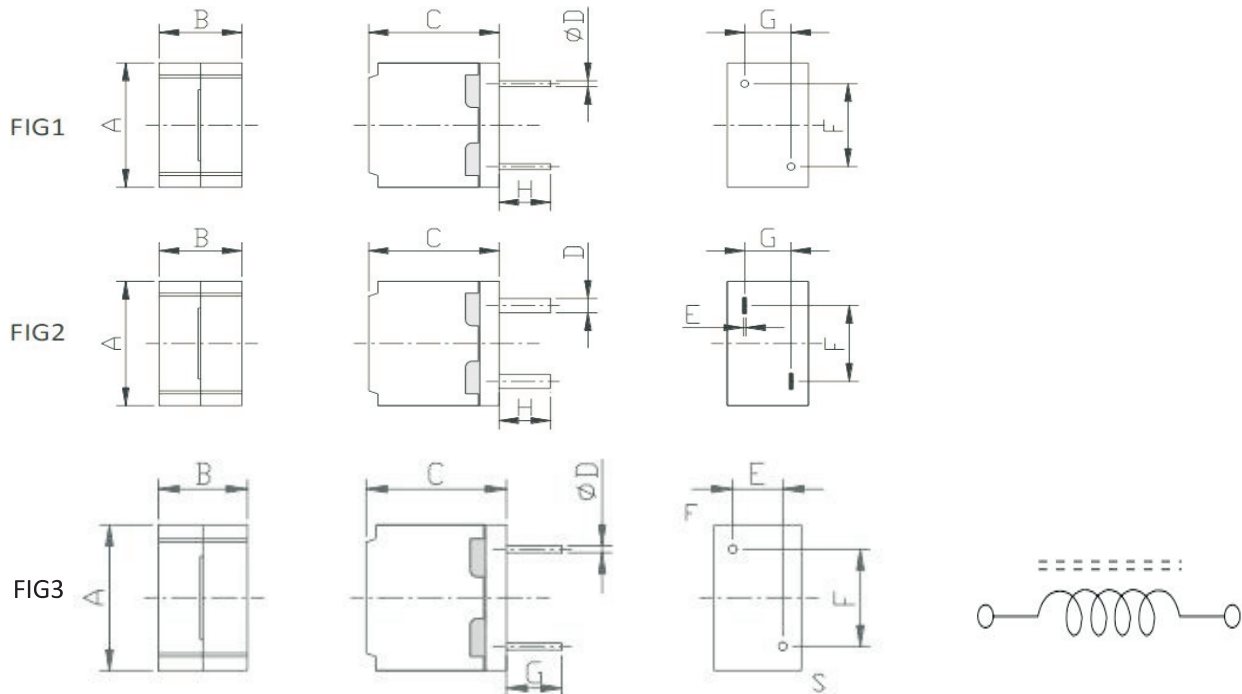
Product Identification:

MDP - 1010 - A - 3R3 M
(1) (2) (3) (4) (5)



- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),P(±25%))

DIMENSIONS DRAWING:



Shape and Dimensions									
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	FIG
MDP-1010A	10.5±0.5	6.4±0.5	10.5Max	*	--	7.0±0.5	4.0±0.5	4.0±0.5	1
MDP-1010B	10.5±0.5	6.4±0.5	10.5Max	*	*	6.4±0.5	3.6±0.5	4.0±0.5	2
MDP-1010AG	10.5±0.5	6.4±0.5	10.5Max	0.6±0.1	4.0±0.5	7.0±0.5	4.0Typ	--	3

Class D Dual Inductor MDP-1010* Series

ELECTRICAL CHARACTERISTIC:

PART NO	Inductance @10KHz/1V		DCR (mΩ)		IDC 1 (A) Max	IDC 2 (A) Max	Dimension	
	L (uH)	Tol.(%)	Typ	Max			D±0.1 (mm)	E±0.1 (mm)
MDP-1010A-100M	10	±20	12.5	18.0	7.5	5.0	0.6	--
MDP-1010A-120M	12	±20	19.6	25.0	6.0	4.8	0.5	--
MDP-1010A-150M	15	±20	25.2	30.0	5.3	4.5	0.45	--
MDP-1010A-180M	18	±20	28.3	35.0	4.8	4.5	0.45	--
MDP-1010A-220M	22	±20	37.2	45.0	4.3	4.0	0.4	--
MDP-1010B-100M	10	±20	--	18	7.5	5.5	1.2	0.2
MDP-1010B-120M	12	±20	--	20	6	5	1.2	0.2
MDP-1010B-150M	15	±20	--	23	5.3	4.8	1.2	0.2
MDP-1010AG-100M	10	±20	17.5	20.5	7.5	4.5	--	--
MDP-1010AG-120M	12	±20	17.5	20.5	6.5	4.5	--	--
MDP-1010AG-150M	15	±20	17.5	20.5	5	4.5	--	--
MDP-1010AG-220M	22	±20	17.5	20.5	3.5	4.5	--	--
MDP-1010AG-330M	33	±20	17.5	20.5	2	4.5	--	--

(1).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ Max

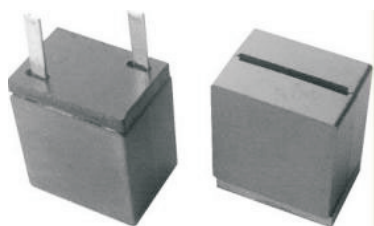
(2).IDC2:Temp.rise 40℃ Typ

(3).Operating Temperature: -40℃ up to +125℃

※:Rated DC Current : The less value which is IDC1 or IDC2

Class D Dual Inductor MDP Series

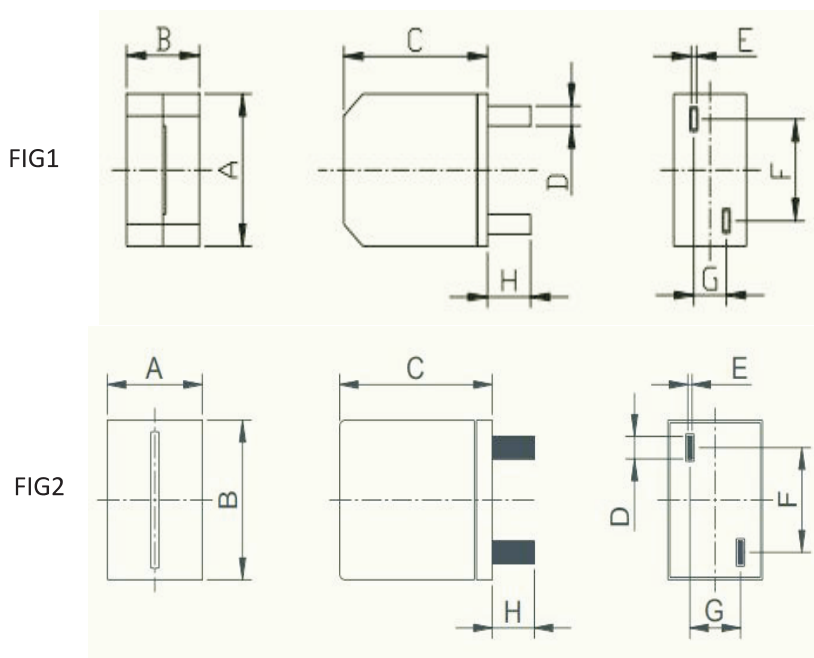
Product Identification:



MDP - **1315** - **L** - **100** **M**
(1) (2) (3) (4) (5)

- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),P(±25%))

DIMENSIONS DRAWING:



Shape and Dimensions									
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	FIG
MDP-1315L	13.0±0.5	6.4±0.5	15.0Max	*	*	8.4±0.5	3.3±0.5	5.0±1.0	1
MDP-1315B	13.0±0.5	8.4±0.5	15.0Max	*	*	8.4±0.5	3.3±0.5	5.0±1.0	1
MDP-1315E	12.8±0.5	9.0±0.5	15.0Max	18.0±0.1	0.4±0.1	8.4±0.5	4.8±0.5	5.0±1.0	2

Class D Dual Inductor DP-1315* Series

ELECTRICAL CHARACTERISTIC:

PART NO	Inductance @10KHz/1V		DCR (mΩ)		IDC 1 (A) Max	IDC 2 (A) Max	Dimension	
	L (uH)	Tol.(%)	Typ	Max			D±0.1 (mm)	E±0.1 (mm)
MDP-1315L-100M	10	±20	--	11.0	9.0	6.0	1.8	0.33
MDP-1315B-100M	10	±20	--	5.6	7.0	8.5	1.8	0.5
MDP-1315B-120M	12	±20	--	6.5	6.6	8.0	1.8	0.5
MDP-1315B-150M	15	±20	--	7.2	5.5	7.5	1.8	0.5
MDP-1315B-220M	22	±20	--	9.0	5.2	7.0	1.8	0.4
MDP-1315B-270M	27	±20	--	15.0	4.0	6.0	1.8	0.33
MDP-1315B-330M	33	±20	--	16.0	3.8	5.5	1.8	0.33
MDP-1315E-100M	10	±20	7.5	10	11	7.5	--	--
MDP-1315E-150M	15	±20	8.1	12.0	9.5	7.0	--	--
MDP-1315E-220M	22	±20	8.1	12.0	5.2	7.0	--	--
MDP-1315E-330M	33	±20	8.1	12.0	3.5	7.0	--	--

(1).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ Max

(2).IDC2:Temp.rise 40℃ Typ

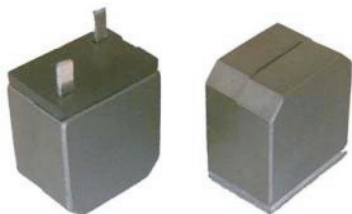
(3).Operating Temperature: -40℃ up to +125℃

※:Rated DC Current : The less value which is IDC1 or IDC2

Class D Dual Inductor MDP Series

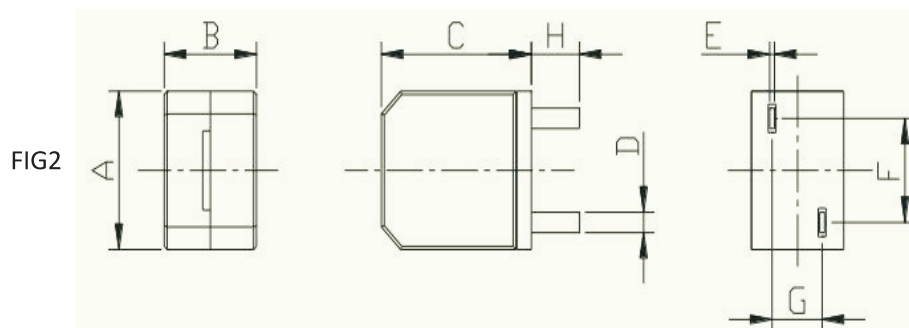
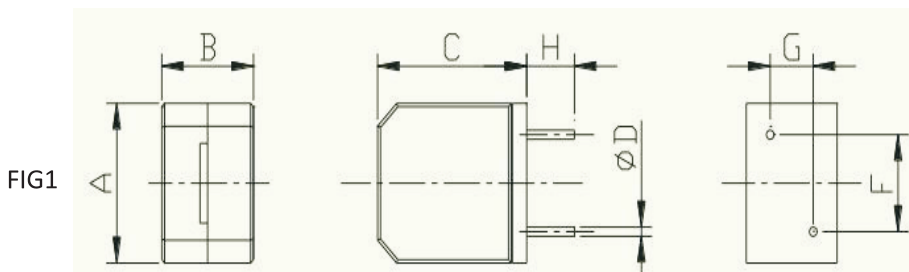
Product Identification:

MDP - **1416** - **A** - **100** **M**
(1) (2) (3) (4) (5)



- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),P(±25%))

DIMENSIONS DRAWING:



Shape and Dimensions

TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	FIG
MDP-1416A	14.0±0.5	9.6±0.5	16.0Max	*	--	8.5±0.5	4.5±0.5	5.0±1.0	1
MDP-1416B	14.0±0.5	9.6±0.5	16.0Max	*	*	9.2±0.5	5.2±0.5	5.0±1.0	2
MDP-1416C	14.0±0.5	9.6±0.5	16.0Max	*	--	8.5±0.5	4.5±0.5	5.0±1.0	

Class D Dual Inductor MDP-1416* Series

ELECTRICAL CHARACTERISTIC:

PART NO	Inductance @10KHz/1V		DCR (mΩ)		IDC 1 (A) Max	IDC 2 (A) Max	Dimension	
	L (uH)	Tol.(%)	Typ	Max			D±0.1 (mm)	E±0.1 (mm)
MDP-1416A-100M	10	±20	--	15.0	11.5	7.0	0.8	--
MDP-1416A-150M	15	±20	--	18.0	10.0	6.0	0.8	--
MDP-1416A-220M	22	±20	--	20.0	8.0	5.5	0.7	--
MDP-1416A-330M	33	±20	--	28.0	5.5	5.0	0.65	--
MDP-1416B-100M	10	±20	--	6.5	9.0	8.0	1.8	0.5
MDP-1416B-120M	12	±20	--	6.5	8.5	8.0	1.8	0.5
MDP-1416B-150M	15	±20	--	7.0	7.5	7.5	1.8	0.5
MDP-1416B-220M	22	±20	--	12	6.5	7	1.8	0.43
MDP-1416B-330M	33	±20	--	15.0	6.0	6.0	1.8	0.35
MDP-1416B-470M	47	±20	--	20.0	5.0	5.0	1.8	0.3
MDP-1416C-100M	10	±20	11.3	15.0	15	7.0	1.8	0.35
MDP-1416C-120M	12	±20	12	16.0	13	7.0	1.8	0.35
MDP-1416C-150M	15	±20	8.2	12.0	11	8.0	1.8	0.43
MDP-1416C-220M	22	±20	12	16.0	10	7.0	1.8	0.35
MDP-1416C-330M	33	±20	16.2	20.0	9	5.0	1.8	0.3

(1).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ Max

(2).IDC2:Temp.rise 40°C Typ

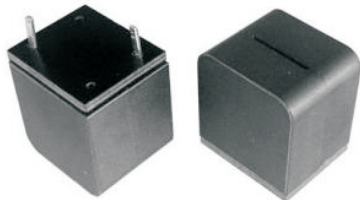
(3).Operating Temperature: -40°C up to +125°C

※:Rated DC Current : The less value which is IDC1 or IDC2

Class D Dual Inductor MDP Series

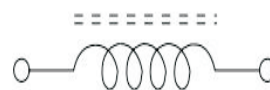
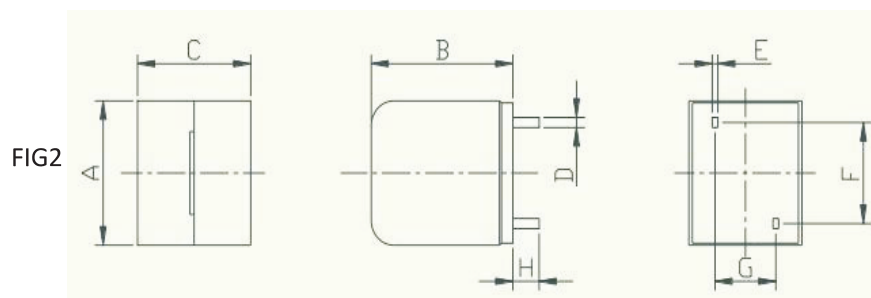
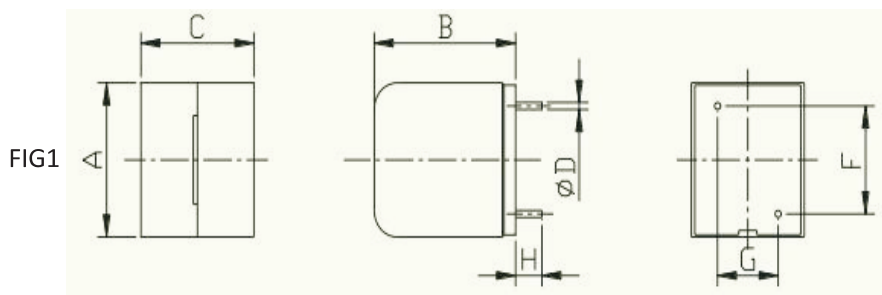
Product Identification:

MDP - 1719 - A - 100 M
(1) (2) (3) (4) (5)



- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),P(±25%))

DIMENSIONS DRAWING:



Shape and Dimensions									
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	FIG
MDP-1719A-100	17.5±0.5	19.3Max	15.0±0.5	1.0±0.1	--	12.5±0.5	8.5±0.5	5.0±1.0	1
MDP-1719A-150	17.5±0.5	19.3Max	15.0±0.5	1.0±0.1	--	12.5±0.5	8.5±0.5	5.0±1.0	
MDP-1719A-220	17.5±0.5	19.3Max	15.0±0.5	0.8±0.1	--	12.5±0.5	8.5±0.5	5.0±1.0	
MDP-1719A-330	17.5±0.5	19.3Max	15.0±0.5	0.7±0.1	--	12.5±0.5	8.5±0.5	5.0±1.0	
MDP-1719A-470	17.5±0.5	19.3Max	15.0±0.5	0.6±0.1	--	12.5±0.5	8.5±0.5	5.0±1.0	
MDP-1719B	17.5±0.5	19.3Max	15.0±0.5	1.2±0.1	0.7±0.1	12.5±0.5	8.5±0.5	5.0±1.0	2

Class D Dual Inductor MDP-1719* Series

ELECTRICAL CHARACTERISTIC:

PART NO	Inductance @10KHz/1V		DCR (mΩ)		IDC 1 (A) Max	IDC 2 (A) Max	Dimension	
	L (uH)	Tol.(%)	Typ	Max			D±0.1 (mm)	E±0.1 (mm)
MDP-1719A-100M	10	±20	--	7.0	22.0	10.0	--	--
MDP-1719A-150M	15	±20	--	8.0	18.0	9.0	--	--
MDP-1719A-220M	22	±20	--	15.0	14.0	6.5	--	--
MDP-1719A-330M	33	±20	--	22.8	12.0	6.0	--	--
MDP-1719A-470M	47	±20	--	34.0	8.0	5.0	--	--
MDP-1719B-100M	10	±20	--	6.4	22.0	12.0	--	--
MDP-1719B-150M	15	±20	--	7.2	18.0	10.0	--	--
MDP-1719B-220M	22	±20	--	8.7	14.0	9.0	--	--
MDP-1719B-330M	33	±20	--	10.2	12.0	8.0	--	--

(1).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ Max

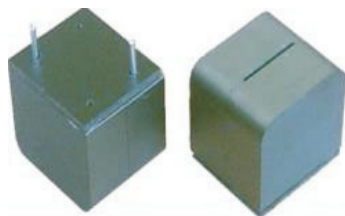
(2).IDC2:Temp.rise 40℃ Typ

(3).Operating Temperature: -40℃ up to +125℃

※:Rated DC Current : The less value which is IDC1 or IDC2

Class D Dual Inductor MDP Series

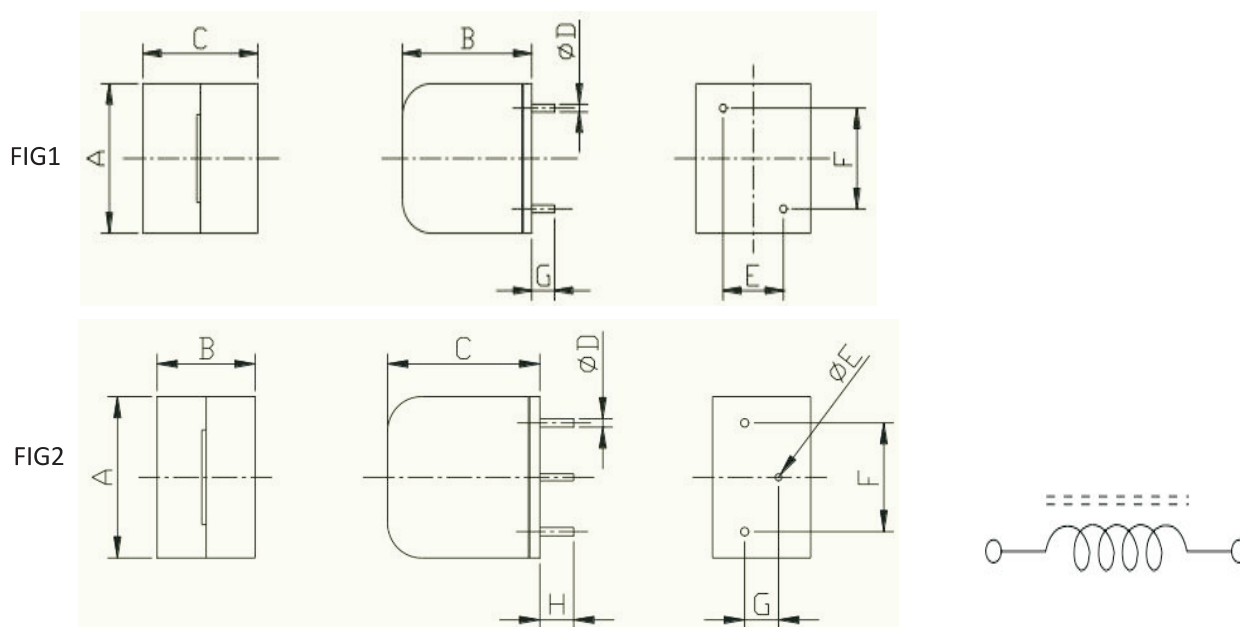
Product Identification:



MDP - **2023** - **A** - **100** **M**
(1) (2) (3) (4) (5)

- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),P(±25%))

DIMENSIONS DRAWING:



Shape and Dimensions

TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	FIG
MDP-2023A	23.0±0.5	23.0Max	20.0±0.5	--	10.5±0.5	15.5±0.5	5.0±1.0	—	1
MDP-2023B	23.0±0.5	14.5±0.5	23.0Max	1.2±0.2	1.0±0.1	15.5±0.5	5.0±0.5	5.0±1.0	2

Class D Dual Inductor MDP-2023* Series

ELECTRICAL CHARACTERISTIC:

PART NO	Inductance @10KHz/1V		DCR (mΩ)		IDC 1 (A) Max	IDC 2 (A) Max	Dimension	
	L (uH)	Tol.(%)	Typ	Max			D±0.1 (mm)	E±0.1 (mm)
MDP-2023A-100M	10	±20	--	3.8	36.0	12.0	--	--
MDP-2023A-150M	15	±20	--	4.2	30.0	12.0	--	--
MDP-2023A-220M	22	±20	--	8.1	18.5	10.0	--	--
MDP-2023A-330M	33	±20	--	13.1	12.0	10.0	--	--
MDP-2023B-100M	10	±20	--	8.3	31.5	9.1	--	--
MDP-2023B-120M	12	±20	--	8.3	26.0	9.1	--	--
MDP-2023B-150M	15	±20	--	9.1	23.5	8.7	--	--
MDP-2023B-180M	18	±20	--	8.3	17.5	9.1	--	--
MDP-2023B-220M	22	±20	--	9.1	16.5	8.7	--	--
MDP-2023B-330M	33	±20	--	12.0	11.0	8.0	--	--

(1).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ Max

(2).IDC2:Temp.rise 40℃ Typ

(3).Operating Temperature: -40℃ up to +125℃

※:Rated DC Current : The less value which is IDC1 or IDC2