

樹脂外装メタライズドポリエステルフィルムコンデンサ

Resin Coated Metalized Polyester Film Capacitors

MDS SERIES

一般電子機器用 標準品

- 誘電体にメタライズドポリエステルフィルムを用いた、無誘導巻き構造
- 難燃性エポキシ樹脂外装 (UL94V-0)

For use in general electronics

- MDS series has non-inductive construction of metalized polyester film.
- Flame retardant epoxy resin (UL94V-0) coating type

性能 Performance

項目 Item	性能 Performance
使用温度範囲 Temperature range	-40~+85°C (+105°C) +85°Cを超える時は電圧軽減必要 Derate the operating voltage if operating temperature is higher than +85°C.
定格電圧範囲 Rated Voltage (U_R)	100V _{DC} (2A), 250V _{DC} (2E), 400V _{DC} (2G), 630V _{DC} (2J)
静電容量範囲 Capacitance range	0.01~10 μ F
静電容量許容差 Capacitance tolerance	±10%(K)
耐電圧 Withstanding voltage	端子相互間 : $U_R \times 1.5(V_{DC})$ for 1 min Between terminals : 端子外装間 : $U_R \times 2(V_{DC})$ for 1~5sec Between terminals and enclosure :
絶縁抵抗 Insulation resistance (IR)	$C \leq 0.33 \mu$ F : $\geq 9000M\Omega$ (100V _{DC} for 1min) $C > 0.33 \mu$ F : $\geq 3000\Omega \cdot F$ (100V _{DC} for 1min)
誘電正接 tan δ	≤ 0.01 (1kHz)

表示例 Marking example

P = 10.0, 15.0

P = 22.5, 27.5

2E105

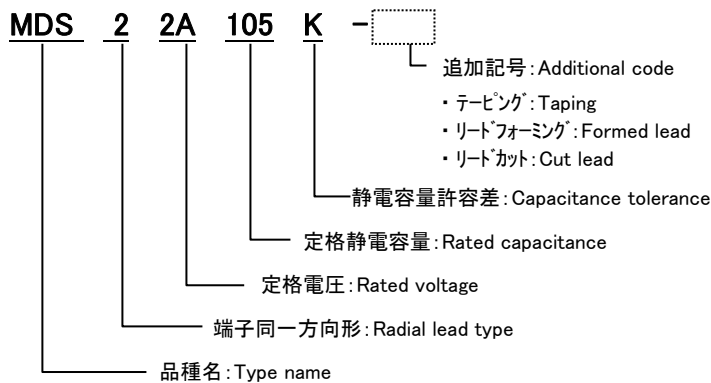
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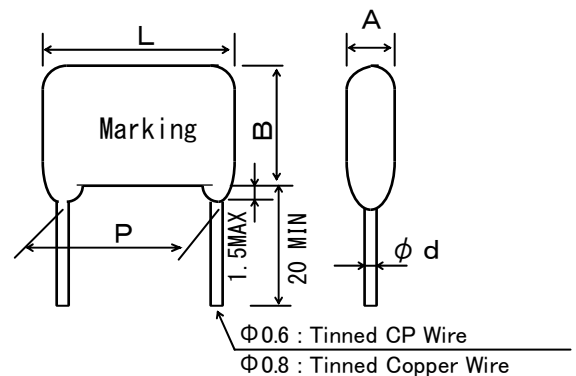
Nitsuko

: 管理記号
Control code

形名の構成例 Type designation



外形図 Component outline



樹脂外装メタライズドポリエステルフィルムコンデンサ

Resin Coated Metalized Polyester Film Capacitors

★ 定格寸法表(MDS) Standard dimensions (mm)

Part cord	Rated voltage (V _{DC})	Capacitance (μF)	Tolerance (%)	A max	B max	L max	P ±0.75	φd	Permissible current	Taping
									I _{op} (A)	PCS/Package
MDS22A564K	100	0.56	±10	5.6	11.0	12.5	10.0	0.6	9.1	1250
MDS22A684K		0.68		6.4	11.0	12.5	10.0	0.6	11.0	1000
MDS22A824K		0.82		5.7	14.0	12.5	10.0	0.6	13.4	1250
MDS22A105K		1.0		6.2	14.5	12.5	10.0	0.6	16.2	1250
MDS22A125K		1.2		5.5	12.5	18.0	15.0	0.8	9.2	600
MDS22A155K		1.5		6.0	13.0	18.0	15.0	0.8	13.8	600
MDS22A185K		1.8		6.5	13.5	18.0	15.0	0.8	16.5	500
MDS22A225K		2.2		7.5	14.5	18.0	15.0	0.8	20.1	500
MDS22A275K		2.7		6.5	13.5	25.5	22.5	0.8	15.1	No Taping
MDS22A335K		3.3		7.0	15.0	25.5	22.5	0.8	18.5	
MDS22A395K		3.9		7.0	16.0	25.5	22.5	0.8	21.8	
MDS22A475K		4.7		8.0	17.0	25.5	22.5	0.8	26.2	
MDS22A565K		5.6		8.5	17.5	25.5	22.5	0.8	31.3	
MDS22A685K		6.8		9.5	18.5	25.5	22.5	0.8	37.9	
MDS22A825K		8.2		10.0	20.0	25.5	22.5	0.8	46.6	
MDS22A106K		10		11.5	21.0	25.5	22.5	0.8	55.6	
MDS22E184K	250	0.18	±10	5.0	10.3	12.5	10.0	0.6	4.8	1500
MDS22E224K		0.22		5.5	10.5	12.5	10.0	0.6	5.8	1250
MDS22E274K		0.27		6.0	11.5	12.5	10.0	0.6	7.1	1250
MDS22E334K		0.33		6.5	12.0	12.5	10.0	0.6	8.7	1000
MDS22E394K		0.39		4.9	12.0	18.0	15.0	0.6	5.8	700
MDS22E474K		0.47		5.3	12.5	18.0	15.0	0.6	6.9	600
MDS22E564K		0.56		5.5	13.0	18.0	15.0	0.6	8.3	600
MDS22E684K		0.68		6.0	13.5	18.0	15.0	0.8	10.0	600
MDS22E824K		0.82		6.5	14.5	18.0	15.0	0.8	12.0	500
MDS22E105K		1.0		7.4	15.0	18.0	15.0	0.8	14.6	400
MDS22E125K		1.2		8.0	15.9	18.0	15.0	0.8	17.5	400
MDS22E155K		1.5		9.0	16.8	18.0	15.0	0.8	21.8	400
MDS22E185K		1.8		7.5	15.5	25.5	22.5	0.8	15.8	No Taping
MDS22E225K		2.2		8.5	16.3	25.5	22.5	0.8	19.3	
MDS22E275K		2.7		9.4	17.0	25.5	22.5	0.8	23.6	
MDS22E335K		3.3		10.3	18.0	25.5	22.5	0.8	28.8	
MDS22E395K		3.9		11.0	20.5	25.5	22.5	0.8	34.0	
MDS22E475K		4.7		12.0	21.5	25.5	22.5	0.8	40.9	
MDS22E565K		5.6		11.8	21.0	30.5	27.5	0.8	38.5	
MDS22E685K		6.8		13.0	22.4	30.5	27.5	0.8	46.7	
MDS22E825K	8.2	14.0	26.0	31.0	27.5	0.8	56.3			
MDS22E106K	10	15.5	27.5	31.0	27.5	0.8	68.7			

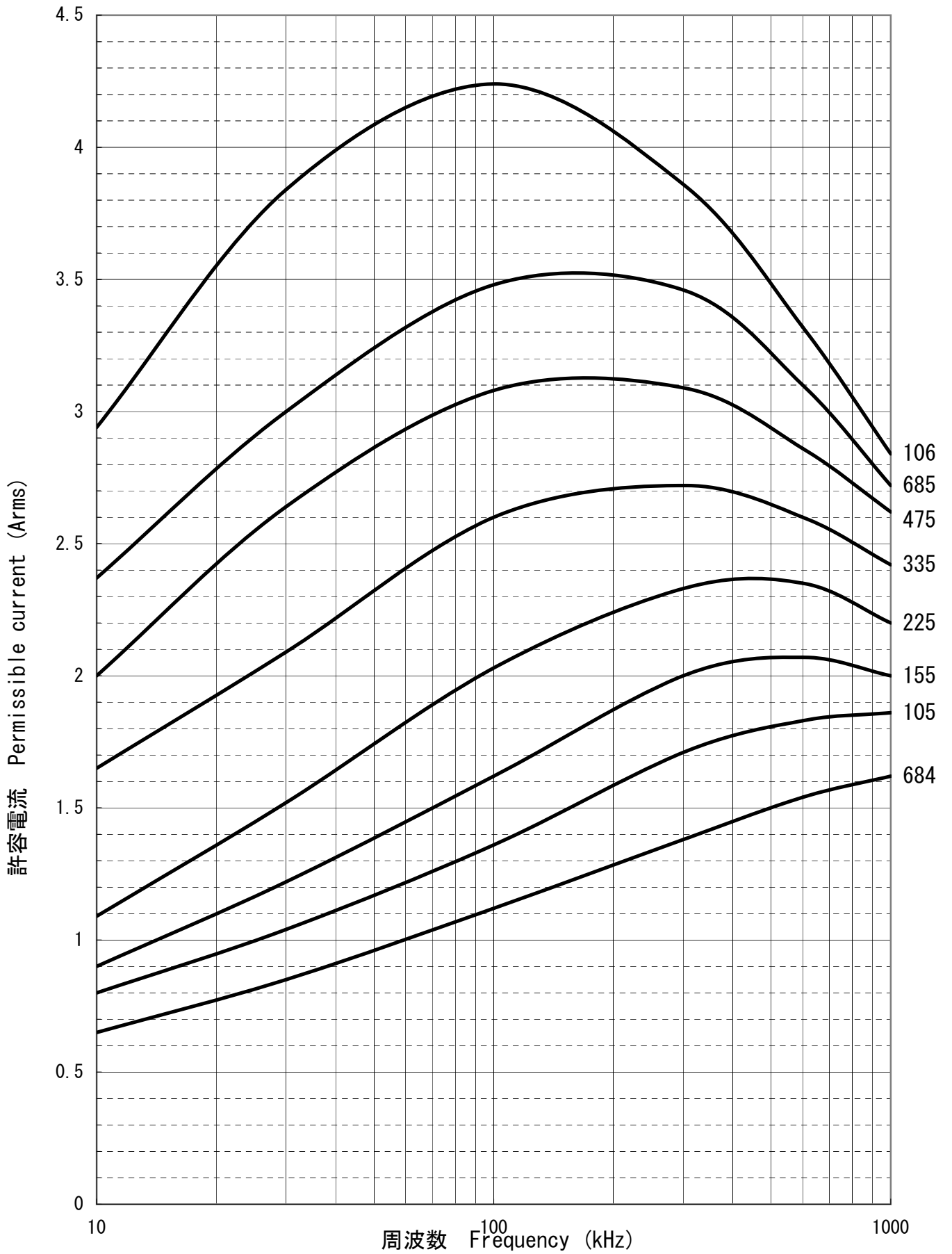
樹脂外装メタライズドポリエステルフィルムコンデンサ

Resin Coated Metalized Polyester Film Capacitors

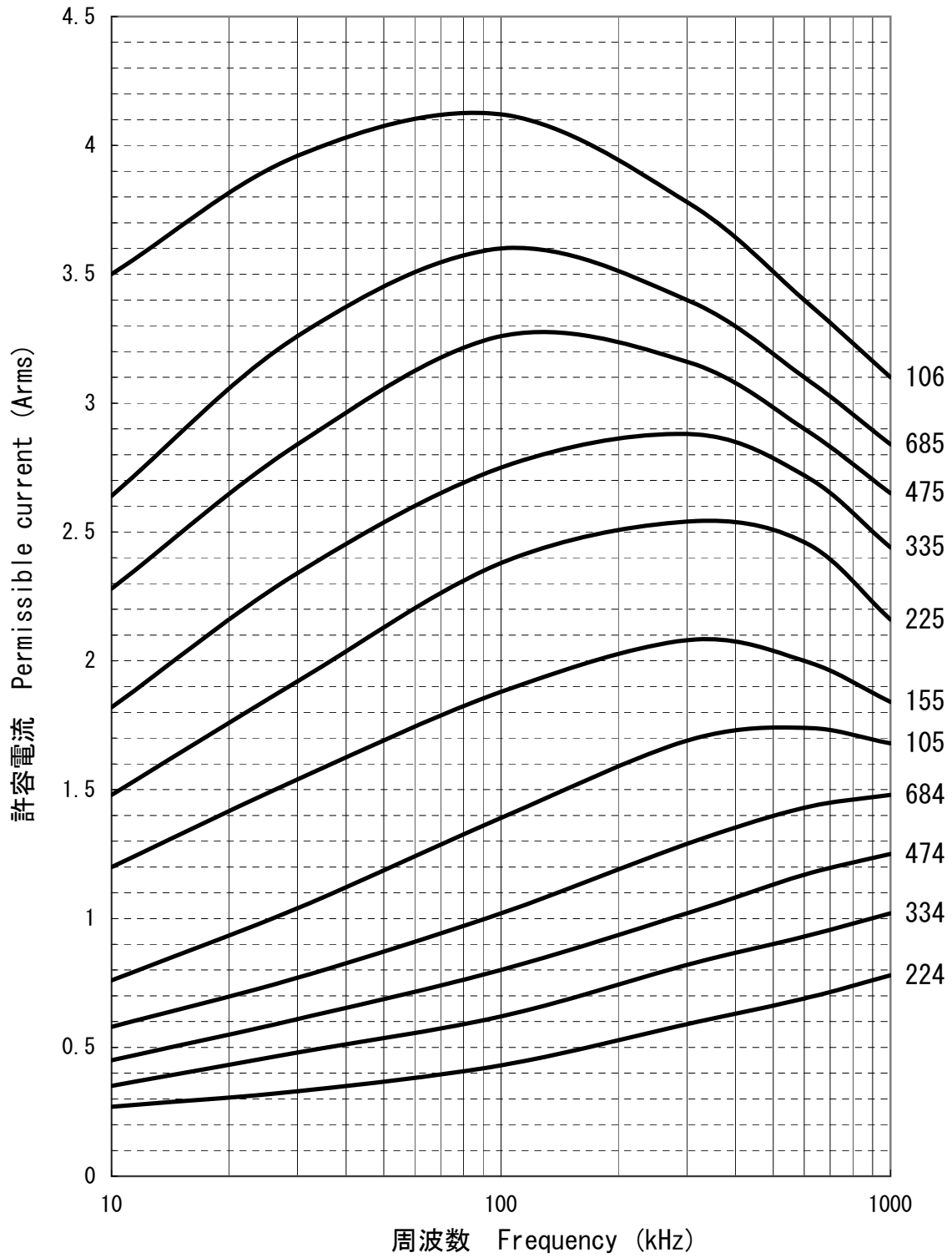
★ 定格寸法表 (MDS) Standard dimensions (mm)

Part cord	Rated voltage (V _{DC})	Capacitance (μF)	Tolerance (%)	A max	B max	L max	P ±0.75	φd	Permissible current	Taping PCS/Package	
									I _{op} (A)		
MDS22G393K	400	0.039	±10	3.5	7.5	12.5	10.0	0.6	1.6	2000	
MDS22G473K		0.047		3.9	7.8	12.5	10.0	0.6	1.9	1750	
MDS22G563K		0.056		4.2	8.1	12.5	10.0	0.6	2.3	1750	
MDS22G683K		0.068		4.6	8.5	12.5	10.0	0.6	2.8	1500	
MDS22G823K		0.082		5.1	9.0	12.5	10.0	0.6	3.3	1500	
MDS22G104K		0.1		5.3	9.9	12.5	10.0	0.6	4.0	1250	
MDS22G124K		0.12		4.3	9.0	18.0	15.0	0.6	2.8	800	
MDS22G154K		0.15		4.8	9.5	18.0	15.0	0.6	3.4	700	
MDS22G184K		0.18		5.3	9.9	18.0	15.0	0.6	4.1	600	
MDS22G224K		0.22		5.5	11.0	18.0	15.0	0.6	5.0	600	
MDS22G274K		0.27		5.9	12.1	18.0	15.0	0.8	6.1	600	
MDS22G334K		0.33		6.6	12.7	18.0	15.0	0.8	7.4	500	
MDS22G394K		0.39		6.9	13.8	18.0	15.0	0.8	8.7	500	
MDS22G474K		0.47		7.7	14.6	18.0	15.0	0.8	10.5	400	
MDS22G564K		0.56		6.4	13.3	25.5	22.5	0.8	8.0	No Taping	
MDS22G684K		0.68		6.8	14.5	25.5	22.5	0.8	9.7		
MDS22G824K		0.82		7.6	15.3	25.5	22.5	0.8	11.6		
MDS22G105K		1.0		8.3	16.6	25.5	22.5	0.8	14.1		
MDS22G125K		1.2		9.2	17.5	25.5	22.5	0.8	16.9		
MDS22G155K		1.5		9.2	17.5	30.5	27.5	0.8	16.5		
MDS22G185K		1.8		10.3	18.5	30.5	27.5	0.8	19.7		
MDS22G225K		2.2		10.9	20.6	30.5	27.5	0.8	24.1		
MDS22G275K		2.7		11.5	24.0	31.0	27.5	0.8	29.6		
MDS22G335K		3.3		13.0	25.5	31.0	27.5	0.8	36.2		
MDS22G395K	3.9	14.5	27.0	31.0	27.5	0.8	42.7				
MDS22G475K	4.7	16.0	28.5	31.0	27.5	0.8	51.5				
MDS22J103K	630	0.01	±10	3.7	7.6	12.5	10.0	0.6	0.96		2000
MDS22J123K		0.012		4.0	7.9	12.5	10.0	0.6	1.1		1750
MDS22J153K		0.015		4.4	8.3	12.5	10.0	0.6	1.4		1750
MDS22J183K		0.018		4.5	9.2	12.5	10.0	0.6	1.6		1500
MDS22J223K		0.022		5.0	9.6	12.5	10.0	0.6	2.0	1500	
MDS22J273K		0.027		5.2	10.6	12.5	10.0	0.6	2.4	1250	
MDS22J333K		0.033		5.8	11.2	12.5	10.0	0.6	2.9	1250	
MDS22J393K		0.039		5.7	12.7	12.5	10.0	0.6	3.5	1250	
MDS22J473K		0.047		6.4	13.3	12.5	10.0	0.6	4.1	1000	
MDS22J563K		0.056		4.5	10.0	18.0	15.0	0.6	2.2	800	
MDS22J683K		0.068		5.0	10.4	18.0	15.0	0.6	2.6	700	
MDS22J823K		0.082		5.5	10.9	18.0	15.0	0.6	3.1	600	
MDS22J104K		0.1		6.1	11.5	18.0	15.0	0.6	3.8	500	
MDS22J124K		0.12		6.1	13.1	18.0	15.0	0.8	4.6	500	
MDS22J154K		0.15		7.0	13.9	18.0	15.0	0.8	5.7	500	
MDS22J184K		0.18		7.8	14.6	18.0	15.0	0.8	6.7	400	
MDS22J224K		0.22		8.7	15.5	18.0	15.0	0.8	8.2	400	
MDS22J274K		0.27		6.8	14.5	25.5	22.5	0.8	5.9	No Taping	
MDS22J334K		0.33		7.7	15.3	25.5	22.5	0.8	7.2		
MDS22J394K		0.39		8.2	16.6	25.5	22.5	0.8	8.4		
MDS22J474K		0.47		9.2	17.5	25.5	22.5	0.8	10.1		
MDS22J564K		0.56		9.5	19.4	25.5	22.5	0.8	12.0		
MDS22J684K		0.68		10.7	20.5	25.5	22.5	0.8	14.5		
MDS22J824K		0.82		10.3	20.1	30.5	27.5	0.8	13.7		
MDS22J105K	1.0	11.7	21.4	30.5	27.5	0.8	16.6				
MDS22J125K	1.2	12.2	24.5	31.0	27.5	0.8	19.9				
MDS22J155K	1.5	13.8	26.0	31.0	27.5	0.8	24.9				
MDS22J185K	1.8	15.5	27.5	31.0	27.5	0.8	29.9				
MDS22J225K	2.2	17.0	29.0	31.0	27.5	0.8	36.5				

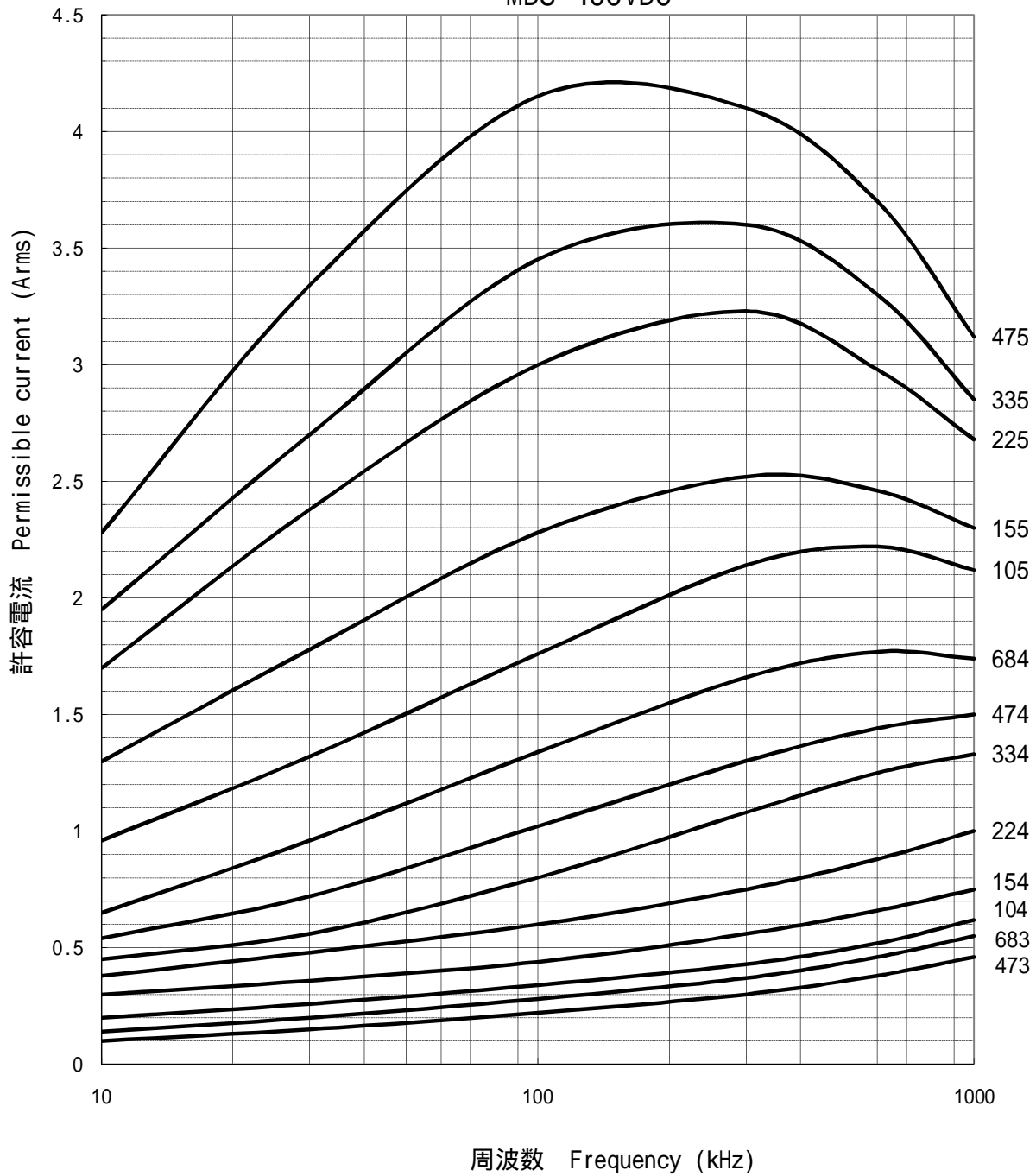
周波数別許容実効電流値
Permissible current vs. Frequency
MDS 100VDC



周波数別許容実効電流値
 Permissible current vs. Frequency
 MDS 250VDC



周波数別許容実効電流値
 Permissible current vs. Frequency
 MDS 400VDC



周波数別許容実効電流値
 Permissible current vs. Frequency
 MDS 630VDC

