

# 樹脂外装メタライズドフィルムコンデンサ

Resin Coated Metallized Film Capacitors

## FPD4 SERIES

### 高周波用 標準品

- 高周波用標準品
- 従来品に比べ、基板面積比約70~90%に小型化
- 許容電流は従来品と同等以上

使用温度 105°Cまで電圧軽減なし

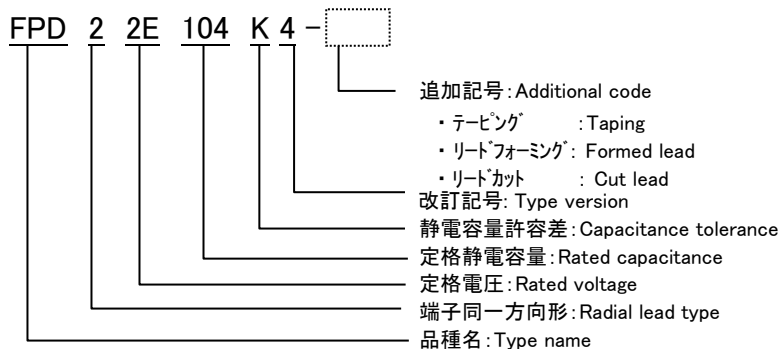
### For high-frequency Standard

- For high frequency
- FPD4 series is 70~90% miniature of existing product.
- The permissible current is the same or more than existing product.
- It is not necessary to reduce the working voltage up to +105°C.

### ★ 性能 Performance

項目 Item	性能 Performance
使用温度範囲 Temperature range	-40~+105°C
定格電圧範囲 Rated Voltage ( $U_R$ )	250V <sub>DC</sub> (2E), 450V <sub>DC</sub> (2W), 630V <sub>DC</sub> (2J)
静電容量範囲 Capacitance range	0.01 ~ 10 $\mu$ F
静電容量許容差 Capacitance tolerance	$\pm 5\%$ (J)、 $\pm 10\%$ (K)
耐電圧 Withstanding voltage	端子相互間: $U_R \times 1.5(V_{DC})$ for 1min 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)	$C \leq 0.33 \mu F$ : $\geq 30000 M \Omega$ $C > 0.33 \mu F$ : $\geq 10000 \Omega \cdot F$ $\left\{ \begin{array}{l} 250, 450 V_{DC} : 100 V_{DC} \text{ for } 1\text{min} \\ 630 V_{DC} : 500 V_{DC} \text{ for } 1\text{min} \end{array} \right.$
誘電正接 tan $\delta$	$\leq 0.001$ (1kHz)

### ★ 形名の構成例 Type designation



定格寸法表の   範囲は、リード・フォーミング限定品です。

Please use forming type when using the scope of  

### ★ 表示例 Marking example

10  $\leq P \leq 17.5$

20.0  $\leq P$

FPD2J103

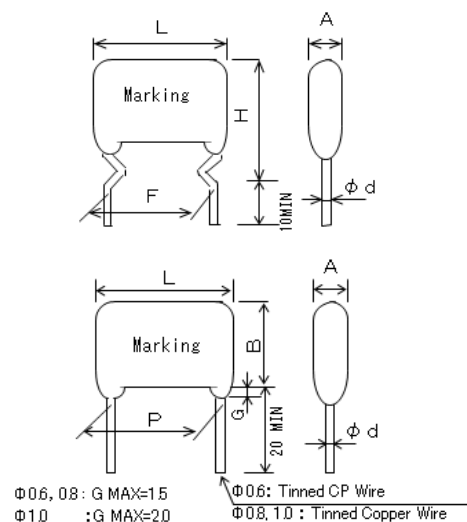
FPD2W105

N  

Nitsuko  

  : 管理記号  
Control code

### ★ 外形図 Component outline



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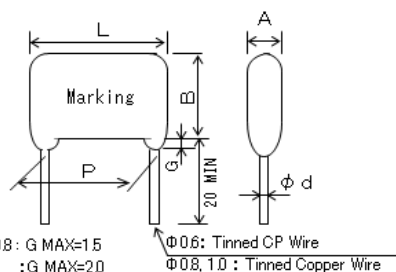
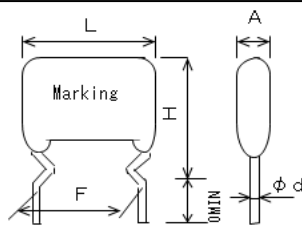
## ★ 定格寸法表 (FPD4) Standard dimensions (mm)

Part cord	Rated voltage (V <sub>DC</sub> )	Capacitance (μF)	Tolerance (%)	A max	B max	H max	L max	P ±0.75	φd	Permissible current I <sub>op</sub> (A)	Taping PCS/Package
FPD22E103K4-F	250	0.01	±10	4.5	—	14.5	13.0	10.0	0.6	1.6	1500
FPD22E153K4-F		0.015		4.9	—	14.8	13.0	10.0	0.6	2.0	1500
FPD22E223K4-F		0.022		4.7	—	14.6	13.0	10.0	0.6	2.5	1500
FPD22E333K4-F		0.033		4.1	—	14.0	13.0	10.0	0.6	2.9	1750
FPD22E473K4-F		0.047		4.7	—	14.6	13.0	10.0	0.6	4.0	1500
FPD22E683K4-F		0.068		4.7	—	14.6	13.0	10.0	0.6	4.8	1500
FPD22E104K4-F		0.1		5.5	—	15.4	13.0	10.0	0.6	7.0	1250
FPD22E154K4-F		0.15		6.0	—	19.0	13.0	10.0	0.6	7.9	1000
FPD22E224K4-F		0.22		6.0	—	18.0	15.5	12.5	0.8	6.5	500
FPD22E334K4-F		0.33		7.0	—	19.0	15.5	12.5	0.8	9.8	500
FPD22E474K4		0.47		6.5	12.5	—	20.5	17.5	0.8	8.7	No taping
FPD22E684K4		0.68		7.5	14.0	—	20.5	17.5	0.8	12.6	
FPD22E105K4		1.0		9.0	15.5	—	20.5	17.5	0.8	18.6	
FPD22E155K4		1.5		11.0	17.5	—	20.5	17.5	0.8	27.9	
FPD22E225K4		2.2		10.5	19.5	—	25.5	22.5	0.8	29.7	
FPD22E335K4		3.3		12.0	24.0	—	25.5	22.5	0.8	44.6	
FPD22E475K4		4.7		12.5	25.0	—	31.0	27.5	0.8	50.0	
FPD22E685K4		6.8		16.0	28.0	—	31.0	27.5	0.8	72.3	
FPD22E106K4		10		18.0	30.0	—	37.0	32.5	1.0	90.8	
FPD22W103K4-F		450		0.01	±10	4.5	—	14.5	13.0	10.0	
FPD22W153K4-F	0.015		4.9	—		14.8	13.0	10.0	0.6	2.0	1500
FPD22W223K4-F	0.022		4.7	—		14.6	13.0	10.0	0.6	2.5	1500
FPD22W333K4-F	0.033		4.1	—		14.0	13.0	10.0	0.6	2.9	1750
FPD22W473K4-F	0.047		4.7	—		14.6	13.0	10.0	0.6	4.0	1500
FPD22W683K4-F	0.068		5.8	—		16.0	13.0	10.0	0.6	4.3	1250
FPD22W104K4-F	0.1		6.0	—		17.5	15.5	12.5	0.8	4.4	500
FPD22W154K4-F	0.15		7.0	—		18.5	15.5	12.5	0.8	6.7	500
FPD22W224K4	0.22		8.0	14.5		—	15.5	12.5	0.8	9.8	400
FPD22W334K4	0.33		8.8	18.0		—	15.5	12.5	0.8	14.7	No taping
FPD22W474K4	0.47		9.5	16.0		—	20.5	17.5	0.8	13.1	
FPD22W684K4	0.68		11.0	17.5		—	20.5	17.5	0.8	18.9	
FPD22W105K4	1.0		11.0	19.0		—	25.5	22.5	0.8	20.3	
FPD22W155K4	1.5		12.0	24.0		—	25.5	22.5	0.8	30.4	
FPD22W225K4	2.2		16.5	25.0		—	25.5	22.5	0.8	44.6	
FPD22W335K4	3.3		15.0	27.5		—	37.0	32.5	1.0	44.9	

※1 静電容量許容差 J (±5%) 品も製作いたします。  
Capacitance tolerance J (±5%) is also available.

※2 250VDC 103~334, 450VDC 103~154 の範囲はリードフォーミング限定品です。  
250VDC 103~334, 450VDC 103~154 Please use forming type

### フォーミング加工例 Example of forming



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Resin Coated Metallized Film Capacitors

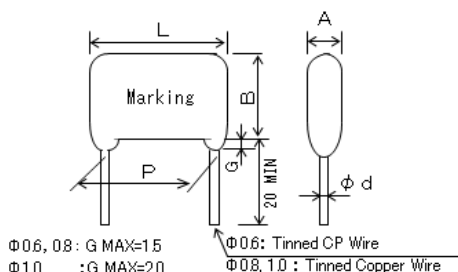
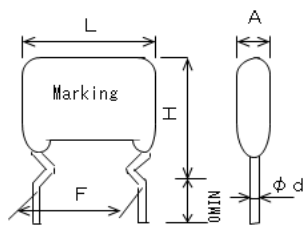
Part cord	Rated voltage (V <sub>DC</sub> )	Capacitance (μF)	Tolerance (%)	A max	B max	H max	L max	P ±0.75	φd	Permissible current I <sub>op</sub> (A)	Taping PCS/Package
FPD22J103K4-F	630	0.01	±10	4.5	—	14.5	13.0	10.0	0.6	1.6	1500
FPD22J153K4-F		0.015		4.9	—	14.8	13.0	10.0	0.6	2.0	1500
FPD22J223K4-F		0.022		5.8	—	16.5	13.0	10.0	0.6	2.8	1250
FPD22J333K4-F		0.033		5.5	—	16.5	15.5	12.5	0.8	2.5	600
FPD22J473K4-F		0.047		6.5	—	18.0	15.5	12.5	0.8	3.6	500
FPD22J683K4-F		0.068		7.5	—	19.0	15.5	12.5	0.8	5.1	400
FPD22J104K4		0.1		8.0	16.5	—	15.5	12.5	0.8	7.6	400
FPD22J154K4		0.15		10.5	17.5	—	15.5	12.5	0.8	11.3	No taping
FPD22J224K4		0.22		10.0	17.0	—	20.5	17.5	0.8	9.9	
FPD22J334K4		0.33		9.5	18.5	—	25.5	22.5	0.8	10.6	
FPD22J474K4		0.47		11.0	20.0	—	25.5	22.5	0.8	15.1	
FPD22J684K4		0.68		13.0	24.0	—	25.5	22.5	0.8	21.9	
FPD22J105K4		1.0		14.0	25.5	—	31.0	27.5	0.8	25.0	
FPD22J155K4		1.5		16.0	28.0	—	37.0	32.5	1.0	31.8	
FPD22J225K4		2.2		19.0	31.0	—	37.0	32.5	1.0	46.7	

※1 静電容量許容差 J (±5%) 品も製作いたします。  
Capacitance tolerance J (±5%) is also available.

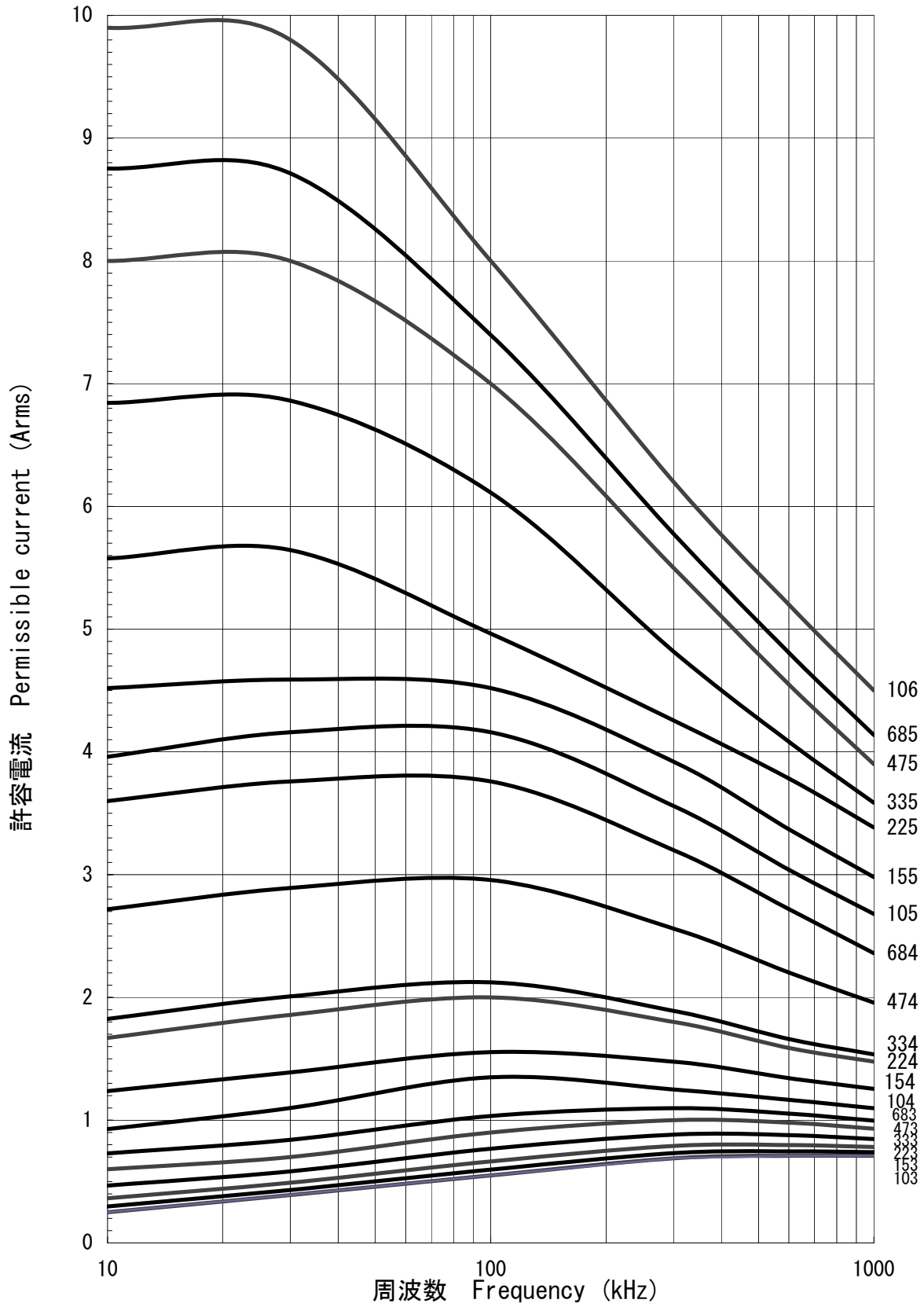
※630VDC 103~683 の範囲はリードフォーミング限定品です。

630VDC 103~683 Please use forming type

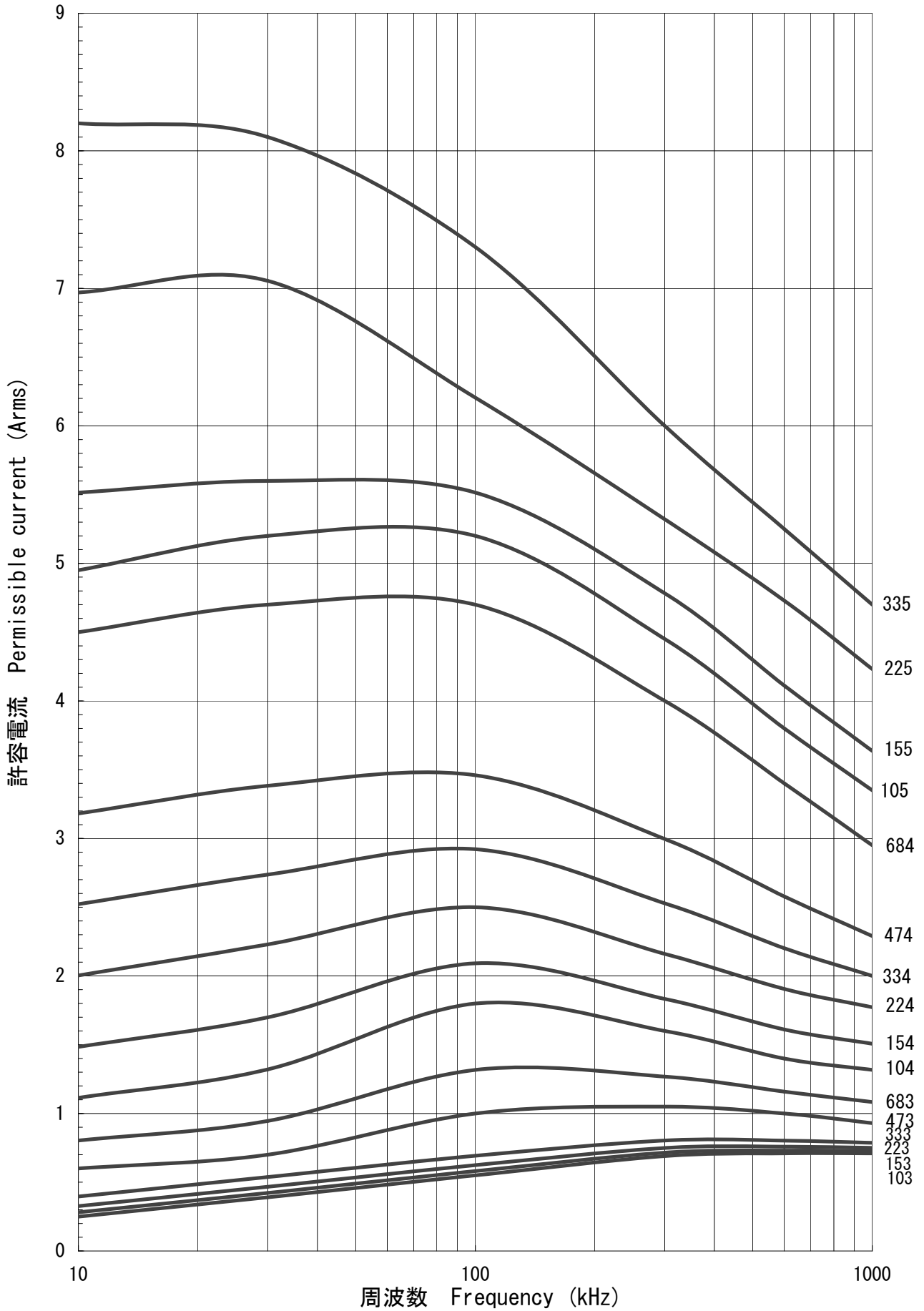
## フォーミング加工例 Example of forming



周波数別許容実効電流値  
Permissible current vs. Frequency  
FPD4 250VDC



周波数別許容実効電流値  
 Permissible current vs. Frequency  
 FPD4 450VDC



周波数別許容実効電流値  
 Permissible current vs. Frequency  
 FPD4 630VDC

