

交流電源用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

CFD-N SERIES

交流電源用 小型化品 ノイズイミュニティ試験対応品

- 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)
- 交流電源用として小型軽量化が図れます。
- ノイズイミュニティ試験におけるサージ電流に耐えます。

AC, Miniature type, Noise immunity test proof

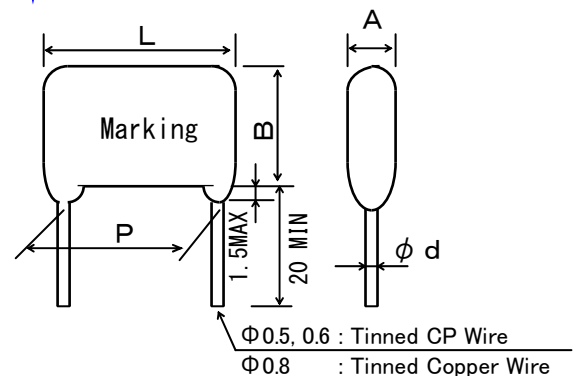
- CFD-N series has non-inductive construction of metalized polyester film.
- Flame retardant epoxy resin (UL94V-0) coating type
- For AC circuit that can be miniaturized and lightened.
- Noise immunity test proof

性能 Performance

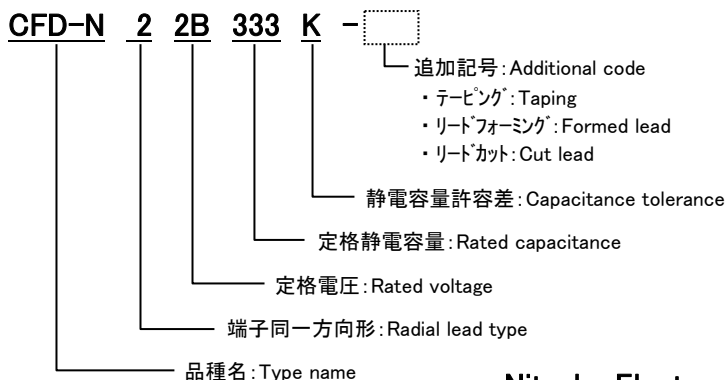
項目 Item	性能 Performance
準拠規格 Approved Standard	電気用品安全法準拠 Conformed to Electrical Appliance And Material Safety Law
使用温度範囲 Temperature range	-40~+85°C (+105°C) +85°Cを超える時は電圧軽減必要 Derate the operating voltage if operating temperature is higher than +85°C.
定格電圧範囲 Rated Voltage (U _R)	125V _{AC} (2B), 250V _{AC} (2E)
静電容量範囲 Capacitance range	0.01 ~ 4.7 μF (A ₁ : 0.01 ~ 0.47 μF, C ₁ : 0.1~4.7 μF)
静電容量許容差 Capacitance tolerance	±10%(K)
耐電圧 Withstanding voltage	端子相互間 : 安全性能 A1: U _R × 2.3(V _{AC}), C1: U _R × 1.75(V _{AC}) (for 1 min) Between terminals (T-T) : 端子外装間 : U _R 125V _{AC} : 1000V _{AC} , U _R 250V _{AC} : 1500V _{AC} (for 1min) Between terminals and enclosure (T-C) :
絶縁抵抗 Insulation resistance (IR)	C ≤ 0.47 μF : ≥ 2,000MΩ (500V _{DC} for 1min) C > 0.47 μF : ≥ 1000 Ω·F (500V _{DC} for 1min)
誘電正接 tan δ	≤ 0.01 (1kHz)

記号 Symbol	A ₁	C ₁
回路 Circuit	異極充電部相互間 Across-the-line	負荷と直列 Line-by-pass
耐電圧 Voltage proof	端子相互間 T-T	U _R × 2.3(V _{AC}) (for 1min)
	端子外装間 T-C	U _R ≤ 150V _{AC} : 1,000V _{AC} U _R > 150V _{AC} : 1,500V _{AC} (for 1min)
静電容量 Capacitance	0.01 ~ 0.47 μF	0.1 ~ 4.7 μF

外形図 Component outline

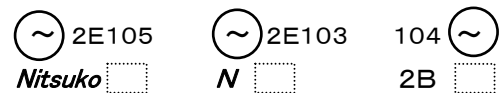


形名の構成例 Type designation



表示例 Marking example

P=22.5, 27.5mm P=10, 15mm P=7.5mm



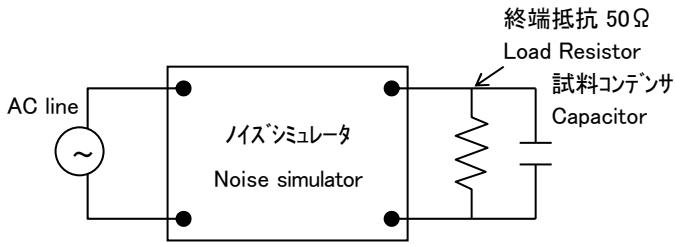
□ : 管理記号

Control Code

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★ノイズイミュニティ試験 Noise immunity test



ノイズシミュレータ出力波形 (試料コンデンサ開放にて)
Noise simulator output waveform (No capacitor)

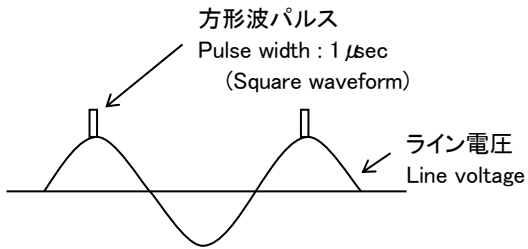
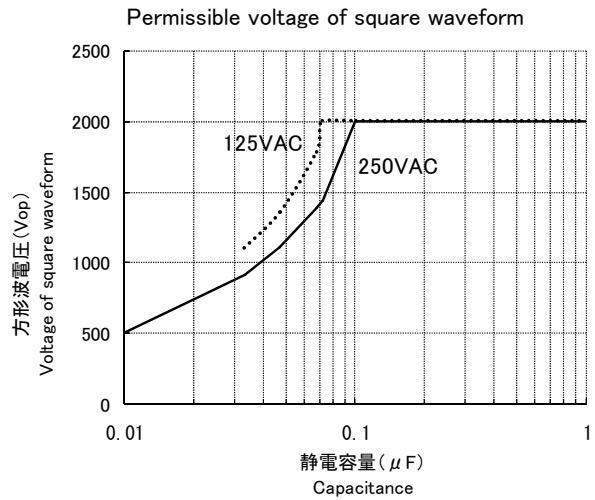


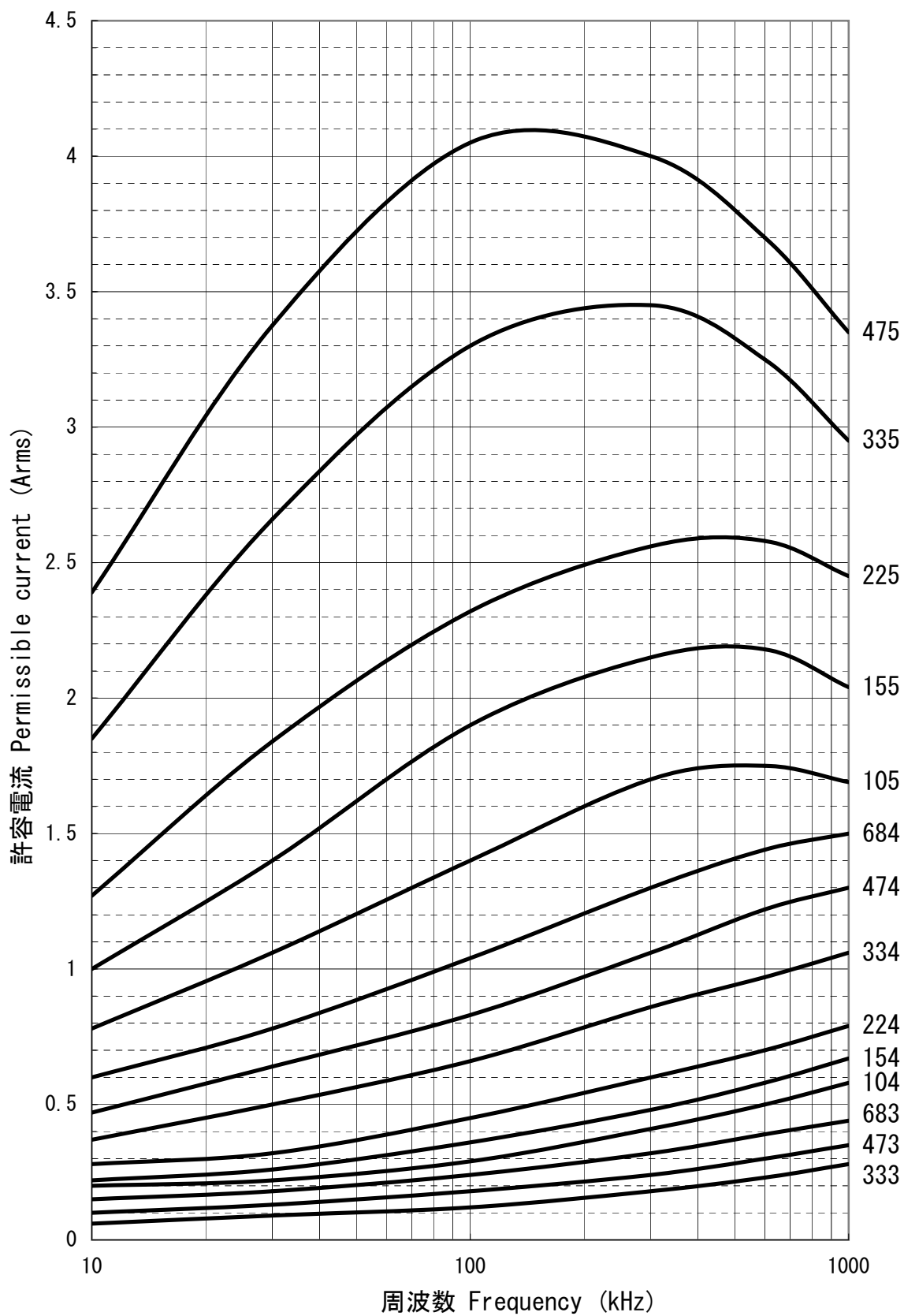
Fig-1 許容方形波電圧



★定格寸法表 (CFD-N) Standard dimensions (mm)

Part cord	Rated voltage (V _{AC})	Capacitance (μF)	Tolerance (%)	A max	B max	L max	P ±1.0	φd	Taping PCS/Package
CFD-N22B333K	125	0.033	±10	4.0	7.5	10.5	7.5	0.5	1750
CFD-N22B473K		0.047		5.0	8.0	10.5	7.5	0.5	1250
CFD-N22B683K		0.068		5.5	9.5	10.5	7.5	0.5	1000
CFD-N22B104K		0.1		6.0	11.0	10.5	7.5	0.5	1000
CFD-N22B154K		0.15		5.5	11.0	13.0	10.0	0.6	1250
CFD-N22B224K		0.22		6.5	12.5	13.0	10.0	0.6	1000
CFD-N22B334K		0.33		6.0	12.5	18.5	15.0	0.6	600
CFD-N22B474K		0.47		7.0	14.0	18.5	15.0	0.6	500
CFD-N22B684K		0.68		7.5	15.5	18.5	15.0	0.6	500
CFD-N22B105K		1.0		7.5	15.0	26.0	22.5	0.8	No Taping
CFD-N22B155K		1.5		8.5	17.5	26.0	22.5	0.8	
CFD-N22B225K		2.2		9.5	19.0	31.0	27.5	0.8	
CFD-N22B335K		3.3		11.5	21.0	31.0	27.5	0.8	
CFD-N22B475K		4.7		13.0	24.5	31.0	27.5	0.8	
CFD-N22E103K		250		0.01	±10	4.5	9.5	13.0	10.0
CFD-N22E153K	0.015		5.0	10.0		13.0	10.0	0.6	1500
CFD-N22E223K	0.022		5.0	10.0		13.0	10.0	0.6	1500
CFD-N22E333K	0.033		5.5	11.5		13.0	10.0	0.6	1250
CFD-N22E473K	0.047		6.0	13.0		13.0	10.0	0.6	1250
CFD-N22E683K	0.068		6.0	11.0		18.5	15.0	0.6	600
CFD-N22E104K	0.1		6.5	13.0		18.5	15.0	0.6	500
CFD-N22E154K	0.15		7.0	15.0		18.5	15.0	0.6	500
CFD-N22E224K	0.22		8.5	16.5		18.5	15.0	0.6	400
CFD-N22E334K	0.33		8.0	16.5		26.0	22.5	0.8	No Taping
CFD-N22E474K	0.47		9.0	18.0		26.0	22.5	0.8	
CFD-N22E684K	0.68		10.0	21.5		26.0	22.5	0.8	
CFD-N22E105K	1.0		11.0	22.5		31.0	27.5	0.8	
CFD-N22E155K	1.5		13.5	25.5		31.0	27.5	0.8	
CFD-N22E225K	2.2		16.5	29.0		31.0	27.5	0.8	

周波数別許容実効電流値
 Permissible current vs. Frequency
 CFD-N 125VAC



周波数別許容実効電流値
 Permissible current vs. Frequency
 CFD-N 250VAC

