

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 Metallized 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

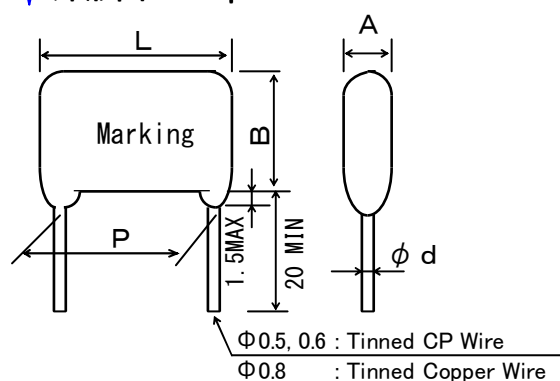
- ➔ CFD-N series has non-inductive construction of metallized polyester film.
- ➔ Flame retardant epoxy resin (UL94V-0) coating type
- ➔ For AC circuit that can be miniaturized and lightened.
- ➔ Noise immunity test proof

★ 性能 Performance

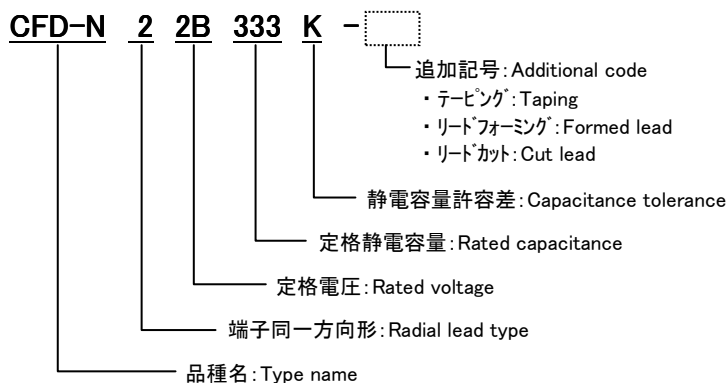
項目 Item	性能 Performance
準拠規格 Approved Standard	電気用品安全法準拠 Conformed to Electrical Appliance And Material Safety Law
使用温度範囲 Temperature range	-40~+105°C (+85°Cを超える時は電圧軽減必要) Derate the operating voltage if operating temperature is higher than +85°C.
定格電圧範囲 Rated Voltage (U_R)	125V _{AC} (2B), 250V _{AC} (2E)
静電容量範囲 Capacitance range	0.01 ~ 4.7 μ F (A_1 : 0.01 ~ 0.47 μ F, C_1 : 0.1 ~ 4.7 μ F)
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 A_1 : $U_R \times 2.3$ (V _{AC}), C_1 : $U_R \times 1.75$ (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)	$C \leq 0.47 \mu F$: $\geq 2,000 M\Omega$ (500V _{DC} for 1min) $C > 0.47 \mu F$: $\geq 1000 \Omega \cdot F$ (500V _{DC} for 1 min)
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 $U_R \times 2.3$ (V _{AC}) (for 1min)	端子外装間 T-C $U_R \times 1.75$ (V _{AC}) (for 1min)
静電容量 Capacitance	$U_R \leq 150V_{AC}$: 1,000V _{AC} $U_R > 150V_{AC}$: 1,500V _{AC} (for 1min)	
	0.01 ~ 0.47 μ F	0.1 ~ 4.7 μ F

★ 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

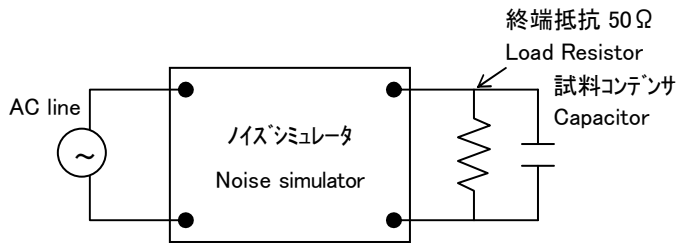
~ 2E105 Nitsuko ~ 2E103 N ~ 104 ~ 2B

□ : 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)

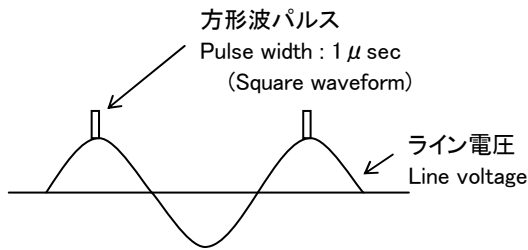
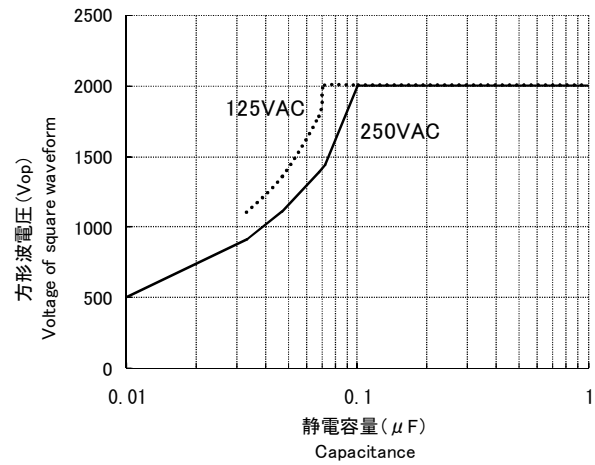


Fig-1 許容方形波電圧

Permissible voltage of square waveform



★定格寸法表 (CFD-N) Standard dimensions

Part cord	Rated voltage (V _{AC})	Capacitance (μF)	Tolerance (%)	Dimensions (mm)					Taping PCS/Package
				A max	B max	L max	P ±1.0	φd	
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	0.6	1500
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	