

FNCD137型



- 小体积、高电压, 85°C 5000 小时  
Development specially for the demand of higher voltage with compact size.  
Warranty of 5000 hours at 85°C
- ROHS 指令 (2002/95/EC) 已对应完毕。Adapted to the ROHS directive (2002/95/EC) .

主要技术性能 Specifications

项目 Item	特性 Performance Characteristics	
使用温度范围 Operating temperature range	-25°C ~+ 85°C	
额定电压范围 Rated voltage range	400 V ,450V	
标称容量允许偏差 Capacitance tolerance	±20% (120Hz, +20°C)	
漏电流 Leakage current	I ≤ 0.01CV(μA)或5mA 5分钟 取较小值 (at 20°C, after 5 minutes , Whichever is smaller )	
损耗角正切值 (tg δ) Dissipation factor (+20°C, 120Hz)	电压(V) 400,450V	tg δ 0.15
耐久性 Load life	+85°C施加额定电压 5000 小时, 恢复 16 小时后: After applying rated voltage for 5000 hours at +85°C and then resumed 16 hours: 容量变化率 Capacitance change : ±15%初始测量值以内 Initial measured value 漏电流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤1.75 倍初始规定值 1.75times Initial specified value	
高温贮存 Shelf life	+85°C,1000 小时贮存后, 加额定工作电压处理 30 分钟,恢复 16 小时后: After storage for 1000 hours at +85°C , U <sub>R</sub> to be applied for 30 minutes and then resumed 16 hours 容量变化率 Capacitance change : ±15%初始测量值以内 Initial measured value 漏电流 Leakage current : ≤初始规定值 Initial specified value 损耗角正切值 Dissipation factor : ≤1.75 倍初始规定值 1.75times Initial specified value	

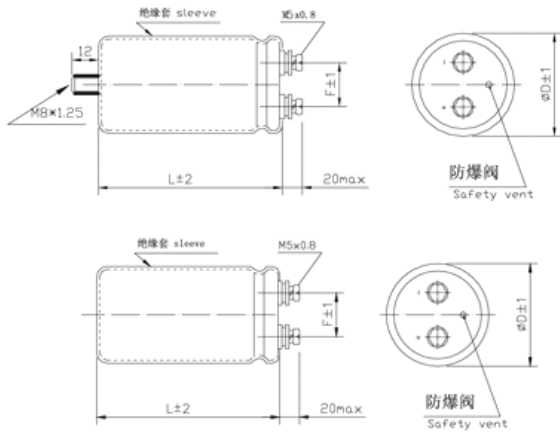
尺寸 DIMENSIONS

Rated Voltage (V.D.C)	Surge Voltage (V.D.C)	Rated capacitance (μ F)	Leakage Current MAX(mA)	Dissipation Factor MAX	Ripple Current 85°C 120Hz(Arms)	Outline Size	
						Code	ΦD×L(mm)
400	450	2200	5.0	0.15	8.8	C12R	51×115
		2700	5.0	0.15	10.2	C13R	51×130
		3300	5.0	0.15	11.0	D10R	63.5×95
		3900	5.0	0.15	12.8	D12R	63.5×115
		4700	5.0	0.15	14.8	D13R	63.5×130
		5600	5.0	0.15	16.2	E12R	76×115
		6800	5.0	0.15	18.7	E13R	76×130
		8200	5.0	0.15	22.0	E16R	76×155
		10000	5.0	0.15	26.7	E20R	76×195
			5.0	0.15	24.2	F13R	89×130
		12000	5.0	0.15	28.5	F16R	89×155
		15000	5.0	0.15	34.8	F20R	89×195
		18000	5.0	0.15	41.2	F24R	89×235
		22000	5.0	0.15	47.0	G24R	101×235
450	500	1800	5.0	0.15	7.6	C12R	51×115
		2200	5.0	0.15	8.8	C13R	51×130
		2700	5.0	0.15	9.5	D10R	63.5×95
		3300	5.0	0.15	11.2	D12R	63.5×115
		3900	5.0	0.15	12.8	D13R	63.5×130
		4700	5.0	0.15	14.1	E12R	76×115
		5600	5.0	0.15	16.2	E13R	76×130
		6800	5.0	0.15	19.1	E16R	76×155
		8200	5.0	0.15	23.0	E20R	76×195
			5.0	0.15	21.0	F13R	89×130
		10000	5.0	0.15	25.7	F17R	89×170
		12000	5.0	0.15	29.7	F20R	89×195
			5.0	0.15	29.3	G18R	101×175
		15000	5.0	0.15	35.9	F24R	89×235
5.0	0.15		34.2	G20R	101×195		
18000	5.0	0.15	40.2	G24R	101×235		

额定纹波电流 Rated ripple current (A, +85°C, 120Hz)

外形图 Case table

单位Unit: mm



ΦD	51	63.5	76	89	101
F	22	28.6	32	32	41.5

允许纹波电流的修正系数 Frequency coefficient

Frequency(Hz)	50,60	100(120)	300	1K	≥10K
Factor	0.7	1.0	1.10	1.30	1.40

环境温度的修正系数 Temperature coefficient

Temperature(°C)	+40	+60	+85
Factor	1.89	1.67	1.00