

FN CD137



- Development specially for the demand of higher voltage with compact size. Warranty of 5000 hours at 85°C
- Adapted to the ROHS directive (2002/95/EC).

Specifications

Item	Performance Characteristics				
Operating temperature ran	-40°C ~ +85°C				
Rated voltage range	400 V, 450V				
Capacitance tolerance	±20% (120Hz, +20°C)				
Leakage current	$I \leq 0.01CV$ (μA) 5mA (at 20°C, after 5 minutes, Whichever is smaller)				
Dissipation factor (tg δ) (+20°C, 120Hz)	<table border="1"> <tr> <td>(V)</td><td>400, 450V</td></tr> <tr> <td>tg δ</td><td>0.15</td></tr> </table>	(V)	400, 450V	tg δ	0.15
(V)	400, 450V				
tg δ	0.15				
Load life	After applying rated voltage for 5000 hours at +85°C and then resumed 16 hours: Capacitance change : ±15% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 1.75 times Initial specified value				
Shelf life	After storage for 1000 hours at +85°C, U_R to be applied for 30 minutes and then resumed 16 hours Capacitance change : ±15% Initial measured value Leakage current : ≤ Initial specified value Dissipation factor : ≤ 1.75 times Initial specified value				

Case table

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

Frequency coefficient					
Frequency(Hz)	50,60	100(120)	300	1K	10K
Factor	0.7	1.0	1.10	1.30	1.40
Temperature coefficient					
Temperature(°C)	+40	+60	+85		
Factor	1.89	1.67	1.00		

■ 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	ϕ D×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

Rated ripple current(A, +85°C, 120Hz)