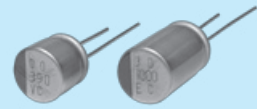


# FEC Series

105°C · 125°C · 135°C

High Ripple Current,  
High Capacitance



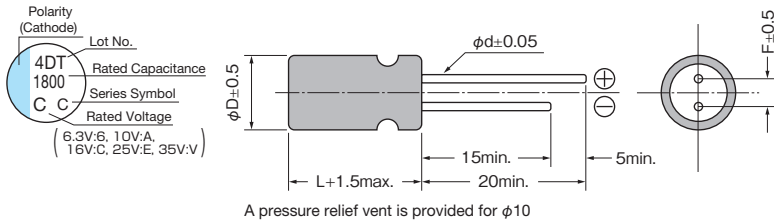
- 105°C 4,000hours, 125°C 4,000hours, 135°C 4,000hours
- Laminated case ● Solvent proof (within 2 minutes)
- AEC-Q200



## Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	6.3	10	16	25	35
Surge voltage (V)	Room temperature	8.0	13	20	32	44
Category temperature range (°C)	—	$\phi 6.3$ : -55 to +125 $\phi 8\text{-}\phi 10$ : -55 to +135				
Capacitance tolerance (%)	120Hz/20°C	M: $\pm 20$				
Dissipation Factor (tan $\delta$ )	tan $\delta$ (max.) 120Hz/20°C	0.18	0.16	0.16	0.14	0.12
Leakage current (LC)	$\mu\text{A}$ /after 2minutes (max.), 20°C	the greater value of either 0.05CV or 100				
Endurance	105°C, 125°C, 135°C rated voltage applied (With the rated ripple current)	Test	4,000hours			
		$\Delta\text{C}/\text{C}$	Within $\pm 30\%$ of the initial value			
		tan $\delta$	Not more than 200% of the specified value			
		ESR	Not more than 200% of the specified value			
		LC	Not more than the specified value			
Shelf Life	$\phi D=6.3$ : 125°C, $\phi D\geq 8$ : 135°C, 1,000hours(with no voltage load)	Shall meet the endurance spec above after voltage treatment at 20deg.C per JIS C 5101-4-4.1.				

## Marking, Dimensions



$\phi D$	L	F	$\phi d$
6.3	7.2	2.5	0.45
8	9.5	3.5	0.6
10	9.5	5.0	0.7
10	11.5	5.0	0.7
10	15.0	5.0	0.7

(Unit : mm)

## Size, ESR, Rated Ripple Current

V Items $\mu\text{F}$	6.3					10					16					
	Case size $\phi D \times L$ (mm)	ESR (m $\Omega$ max.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size $\phi D \times L$ (mm)	ESR (m $\Omega$ max.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size $\phi D \times L$ (mm)	ESR (m $\Omega$ max.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			
			105°C	125°C	135°C			105°C	125°C	135°C			105°C	125°C	135°C	
390					6.3x7.2	28	4200	1500	—							
560	6.3x7.2	28	4200	1500	—					8x9.5	27	—	3100	1500		
820					8x9.5	18	6000	3700	1800							
1000										10x9.5	20	—	3600	1750		
1200	8x9.5	18	6000	3700	1800					10x11.5	16	—	4100	1950		
1500					10x9.5	16	6500	4000	1900							
1800					10x11.5	14	7000	4400	2100	10x15	11	—	5200	2500		
2200	10x9.5	16	6500	4000	1900											
2700	10x11.5	14	7000	4400	2100	10x15	10	8400	5200	2500						
3900	10x15	10	8400	5200	2500											

V Items $\mu\text{F}$	25					35					
	Case size $\phi D \times L$ (mm)	ESR (m $\Omega$ max.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			Case size $\phi D \times L$ (mm)	ESR (m $\Omega$ max.) (20°C/100kHz)	Rated ripple current (mA rms/100kHz)			
			105°C	125°C	135°C			105°C	125°C	135°C	
220					8x9.5	27	—	3100	1500		
330	8x9.5	27	—	3100	1500						
390	8x9.5	27	—	3100	1500	10x9.5	20	—	3600	1750	
470					10x11.5	16	—	4100	1950		
560	10x9.5	20	—	3600	1750						
680	10x9.5★	20	—	3600	1750	10x15	11	—	5200	2500	
	10x11.5	16	—	4100	1950						
820	10x11.5★	16	—	4100	1950						
1000	10x15	11	—	5200	2500						
1200	10x15	11	—	5200	2500						

Please refer to page 20 for ripple current frequency coefficients.

★S type

## Part number

