

FEC

Series

105°C•125°C•135°C

High Capacitance
High Ripple Current

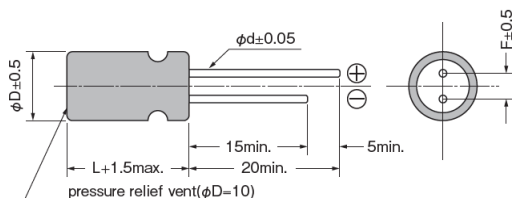
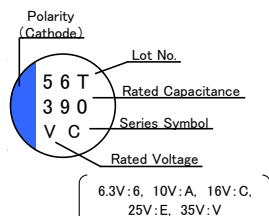
- 105°C 4,000hours•10,000hours、125°C 4,000hours、135°C 4,000hours
- Solvent proof(within 2 minutes)
- AEC-Q200

UP GRADE

Specifications

Items		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)	—		ϕ 6.3 : -55 to +125 ϕ 8, ϕ 10 : -55 to +135				
Capacitance tolerance (%)	120Hz/20°C		M: ±20				
Dissipation Factor(tan δ)	tan δ (max.) 120Hz/20°C		0.18	0.16	0.16	0.14	0.12
Leakage current(LC)	μ A/after 2 minutes(max.)		The greater value of either 0.05CV or 100				
Endurance	rated voltage applied (With the rated ripple current)	Test	105°C : 4,000hours・10,000hours 125°C : 4,000hours 135°C : 4,000hours				
		Δ C/C	Within ±30% of the initial value				
		tan δ	Less than 200% of the specified value				
		ESR	Less than 200% of the specified value				
		LC	Less than the specified value				
Shelf Life	ϕ D ≤6.3 : 125°C ϕ D ≥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



(Unit:mm)

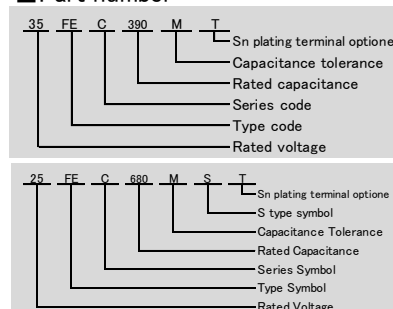
ϕD	L	F	ϕd
6.3	7.2	2.5	0.45
8	9.5	3.5	0.6
10	9.5	5.0	0.7
10	11.5	5.0	0.7
10	15.0	5.0	0.7

Size, ESR, Rated Ripple Current

Case size Case size φ D × L (mm)	Items	6.3						10						16											
		Capacitance (μ F)	ESR (m Ω max.) 20°C/100kHz	Rated ripple current (mAmps/100kHz)				Capacitance (μ F)	ESR (m Ω max.) 20°C/100kHz	Rated ripple current (mAmps/100kHz)				Capacitance (μ F)	ESR (m Ω max.) 20°C/100kHz	Rated ripple current (mAmps/100kHz)									
				105°C						105°C						105°C									
				105°C		125°C				135°C		105°C				125°C		135°C		105°C		125°C		135°C	
				4000hrs.	10000hrs.	4000hrs.	4000hrs.			4000hrs.	10000hrs.	4000hrs.	4000hrs.			4000hrs.	10000hrs.	4000hrs.	4000hrs.	4000hrs.	10000hrs.	4000hrs.	4000hrs.		
6.3 × 7.2	560	28	4200	2700	1500	—	390	28	4200	2700	1500	—	270	30	—	—	1500	—							
8 × 9.5	1200	18	6000	4600	3700	1800	820	18	6000	4600	3700	1800	560	27	—	—	3100	1500							
10 × 9.5	2200	16	6500	5000	4000	1900	1500	16	6500	5000	4000	1900	1000	20	—	—	3600	1750							
10 × 11.5	2700	14	7000	5400	4400	2100	1800	14	7000	5400	4400	2100	1200	16	—	—	4100	1950							
10 × 15.0	3900	10	8400	6500	5200	2500	2700	10	8400	6500	5200	2500	1800	11	—	—	5200	2500							

Case size φ D × L (mm)	Items	25					35					
		Capacitance (μ F)	ESR (m Ω max.) 20°C/100kHz	Rated ripple current (mA rms/100kHz)			Capacitance (μ F)	ESR (m Ω max.) 20°C/100kHz	Rated ripple current (mA rms/100kHz)			
				105°C	125°C	135°C			105°C	125°C	135°C	
				4000hrs	10000hrs	4000hrs			4000hrs	4000hrs	10000hrs	4000hrs
6.3 × 7.2	180	30	—	—	1400	—	120	30	—	—	1400	—
8 × 9.5	330	27	—	—	3100	1500	220	27	—	—	3100	1500
	390	27	—	—	3100	1500						
10 × 9.5	560	20	—	—	3600	1750	390	20	—	—	3600	1750
	680★	20	—	—	3600	1750						
10 × 11.5	680	16	—	—	4100	1950	470	16	—	—	4100	1950
	820★	16	—	—	4100	1950						
10 × 15.0	1000	11	—	—	5200	2500	680	11	—	—	5200	2500
	1200	11	—	—	5200	2500						

Part number



★S type