

FEF Series

125°C · 135°C

High Ripple Current



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

UPGRADE

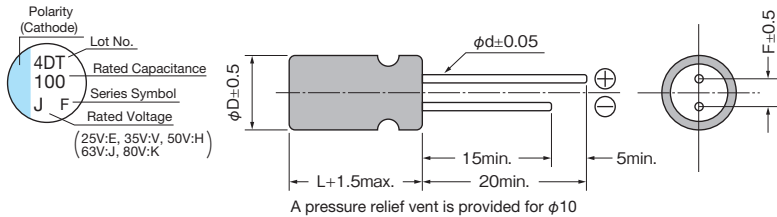
Aluminum Electrolytic Capacitors with Hybrid Conductive Polymer

Soldering Condition
Reflow Soldering Condition
Ripple Current Frequency Coefficient
FVL
HVHZ-HVH
HVPZ-HVP
HVT
HVHF
HVPF
HVPX
HVTX
HVHY **UPGRADE**
HVPY
HVTY
HVHC
HVPC **UPGRADE**
FVC **UPGRADE**
FVFP
FVF **UPGRADE**
FVS
FEC **UPGRADE**
FEF **UPGRADE**

Specifications

Items	Condition	Specifications				
Rated voltage (V)	—	25	35	50	63	80
Surge voltage (V)	Room temperature	32	44	63	79	100
Category temperature range (°C)	—	-55 to +135				
Capacitance tolerance (%)	120Hz/20°C	M : ±20				
Dissipation Factor(tan δ)	tanδ (max.) 120Hz/20°C	0.14	0.12	0.10	0.08	0.08
Leakage current (LC)	μA/after 2minutes (max.), 20°C	The greater value of either 0.05CV or 100				
Endurance	125°C, 135°C rated voltage applied (With the rated ripple current)	Test	4,000hours			
		ΔC/C	Within ±30% of the initial value			
		tanδ	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	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

V Items μF	25				35				50			
	Case size φDxL (mm)	ESR(mΩmax.) (20C/100kHz)	Rated ripple current(mArms/100kHz)		Case size φDxL (mm)	ESR(mΩmax.) (20C/100kHz)	Rated ripple current(mArms/100kHz)		Case size φDxL (mm)	ESR(mΩmax.) (20C/100kHz)	Rated ripple current(mArms/100kHz)	
			125°C	135°C			125°C	135°C			125°C	135°C
33												
68					6.3x7.2	35	2700	1800	6.3x7.2	40	2200	1500
100	6.3x7.2	30	2700	1800					8x9.5	30	2900	2100
120									10x9.5	28	3600	2600
150					8x9.5	20	4000	3000	10x9.5	28	3600	2600
220	8x9.5	20	4000	3000					10x11.5	19	3900	2800
270					10x9.5	18	4600	3400	10x15	13	5100	3700
330	10x9.5	18	4600	3400	10x11.5	14	5200	3900				
470	10x11.5	14	5200	3900	10x15	11	6000	4500				
680	10x15	11	6000	4500								

V Items μF	63				80			
	Case size φDxL (mm)	ESR(mΩmax.) (20C/100kHz)	Rated ripple current(mArms/100kHz)		Case size φDxL (mm)	ESR(mΩmax.) (20C/100kHz)	Rated ripple current(mArms/100kHz)	
			125°C	135°C			125°C	135°C
22	6.3x7.2	60	2000	1400				
33					8x9.5	45	2500	1700
47	8x9.5	40	2700	1900				
56	8x9.5	40	2700	1900	10x9.5	36	3200	2200
68					10x11.5	32	3500	2400
82	10x9.5	30	3400	2400				
100	10x9.5 ★ 10x11.5	30 22	3400 3700	2400 2600	10x15	16	4400	3200
120	10x11.5 ★	22	3700	2600				
150	10x15	15	4900	3500				
180	10x15	15	4900	3500				

Please refer to page 20 for ripple current frequency coefficients.
★S type

Part number

