



- axial terminals
- low mounting height
- high CV product
- long life 85 °C

### Features

- polarized aluminium electrolytic capacitors, non-solid electrolyte
- all internal contacts welded

### Applications

- standard and switched mode power supplies
- telecommunications
- general industrial
- hifi-applications

### General specifications

Items		Characteristics
Rated capacitance range $C_R$		4.7 ... 82.000 µF
Capacitance tolerance		± 20%
Rated voltage range $U_R$		16 ... 500 V
Surge voltage $U_S$		$U_R \leq 315 \text{ V}: U_S = 1,15 U_R$ $U_R > 315 \text{ V}: U_S = 1,10 U_R$
Max. reverse voltage		- 2 V
Category temperature range		- 40 °C ... + 85 °C
Leakage current $I_L$ after 5 min @ $U_R$		$\leq 0,008 * C_R [\mu\text{F}] * U_R [\text{V}] + 6 \mu\text{A} [\mu\text{A}]$
Useful life	5.000 h@ 85 °C ; $U_R$ ; $I_{R-}$	Requirements $\Delta C/C \leq 30 \%$ of initial value $\text{ESR} \leq 300 \%$ of specified limit $I_L \leq$ specified limit
Endurance test	2.000 h@ 85 °C , $U_R$	Requirements $\Delta C/C \leq 20 \%$ of initial value $\text{ESR} \leq 130 \%$ of specified limit $I_L \leq$ specified limit
Climatic category IEC 60068		40/085/56
Voltage proof of the external insulation		$D \leq 25 \text{ mm}: \geq 1000 \text{ V AC}$ $D > 25 \text{ mm}: \geq 2500 \text{ V AC}$
Sectional specification		IEC 60384-4

# A



# 85°C

# FT<sub>CAP</sub>

dimensions ( mm )	rated voltage ( V )											
	16	25	40	63	80	100	160	250	350	400	450	500
10 x 30	2.200	1.200	560	330	220	150	56	33	22	15	10	4,7
12 x 30	3.300	1.800	1.000	470	330	220	100	56	33	22	15	10
14 x 30	4.700	2.700	1.500	680	470	330	120	82	47	33	22	12
14 x 37	4.700	3.300	1.800	820	680	390	150	100	56	47	33	15
16 x 30	5.600	3.300	1.800	1.000	680	470	150	100	56	47	33	15
16 x 39	8.200	4.700	2.200	1.200	1.000	560	220	150	82	56	47	22
18 x 30	8.200	4.700	2.200	1.200	1.000	560	220	150	82	56	47	22
18 x 39	10.000	5.600	3.300	1.500	1.200	680	270	180	100	82	68	33
21 x 36	12.000	6.800	3.900	2.200	1.500	1.000	330	220	120	120	100	47
25 x 38	18.000	10.000	5.600	3.300	2.200	1.500	560	390	220	180	150	82
25 x 49	33.000	18.000	10.000	5.600	3.900	2.200	1.000	680	330	270	220	120
30 x 50	47.000	27.000	15.000	8.200	5.600	3.300	1.500	820	560	390	330	180
35 x 50	56.000	33.000	22.000	12.000	8.200	4.700	1.800	1.200	680	560	470	220
35 x 66	82.000	47.000	27.000	15.000	12.000	6.800	2.700	1.800	1.000	820	680	330

How to order

	Prod. Family	capacity	voltage	diameter	length
	A	2.200µF	80V	25mm	38mm
<b>Order-code</b>	<b>A</b>	<b>222</b>	<b>080</b>	<b>25</b>	<b>038</b>