Capacitors

85°C Radial electrolytic capacitors

Order Code	Voltage	Value	Ripple (mA)	Case Code
11-0305	10V	47µ	100	A
11-0310		100µ	140	A
11-1400		220µ	230	B
11-0270		470µ	390	C
11-0315		1000µ	670	D
11-0320		2200µ	1080	M
11-1402		4700µ	1610	G
11-0325	16V	47µ	100	A
11-0245		100µ	170	B
11-0260		220µ	290	B
11-1404		330µ	350	C
11-0275		470µ	460	C
11-0290		1000µ	820	E
11-0300		2200µ	1160	G
11-1406		3300µ	1490	H
11-0750		4700µ	1900	I
11-0220	25V	10µ	50	A
11-0230		22µ	75	A
11-1408		33µ	90	A
11-0235		47µ	110	A
11-0250		100µ	180	B
11-0265		220µ	310	C
11-1410		330µ	410	D
11-0280		470µ	530	E
11-0295		1000µ	880	J
11-0330		2200µ	1350	H
11-1412		3300µ	1790	I
11-0755		4700µ	2040	K
11-1414	35V	3µ3	35	A
11-0340		22µ	90	A
11-0345		47µ	140	B
11-0350		100µ	230	C
11-0355		220µ	370	D
11-1416		330µ	500	E
11-0360		470µ	670	E
11-0760		1000µ	990	G
11-0765		2200µ	1700	I
11-1418		4700µ	2380	L

Order Code	Voltage	Value	Ripple (mA)	Case Code
11-1420	63V	0µ47	15	A
11-0205		1µ	22	A
11-0210		2µ2	32	A
11-0215		4µ7	47	A
11-0225		10µ	60	A
11-0335		22µ	100	B
11-1422		33µ	130	B
11-0240		47µ	170	C
11-0255		100µ	270	D
11-0385		220µ	500	J
11-1424		330µ	620	G
11-0390		470u	820	H
11-1426		1000µ	1360	K
11-1428	100V	1µ	22	A
11-1430		2µ2	32	A
11-1432		3µ3	39	A
11-1434		4µ7	47	A
11-1436		10µ	80	B
11-1438		22µ	130	C
11-1440		33µ	180	D
11-1442		47µ	230	E
11-1444		100µ	380	J

Specification

Item	Rating						
Operating temperature range	-40°C ~ +85°C						
Rated Working Voltage	See table above						
Capacitance tolerance (120Hz @ 25°C)	±20% (M)						
Leakage Current (@ 25°C)	I = 0.01CV or 3(μA) max. [1]						
Surge Voltage	Working Voltage	10	16	25	35	63	100
	Surge Voltage	13	20	32	44	79	125
Dissipation Factor (120Hz @ 25°C) (tan δ)	Add 0.02 per 1000μF for more than 1000μF						
	Working Voltage	10	16	25	35	63	100
	tan δ	0.2	0.17	0.15	0.12	0.1	0.08
Low temperature stability	Impedance ratio at 120Hz						
	Rated Voltage (V)		10	16	25	35-100	
	-25°C / +25°C		3	2	2	2	
	-40°C / +25°C		8	6	4	3	
Load life	After 2000 hours application of working voltage at +85°C the capacitor shall meet the following limits						
	Capacitance charge		≤ ±20% of initial value				
	Dissipation factor		≤ 150% of initial specified value				
	Leakage current		≤ initial specified value				
Shelf Life	At 85°C no voltage applied after 500 hours the capacitor shall meet the following limits						
	Capacitance charge		≤ ±20% of initial value				
	Dissipation factor		≤ 200% of initial specified value				
	Leakage current		≤ 200% of initial specified value				

Frequency coefficient of allowable ripple current

V	Capacitance (μF)	Frequency				
		50Hz	120Hz	300Hz	1kHz	10kHz
10 – 100	-47	0.75	1.00	1.35	1.57	2.00
	100-470	0.80	1.00	1.23	1.34	1.50
	1000-4700	0.85	1.00	1.10	1.13	1.15

Allowable ripple current Vs. ambient temperature

Ambient temp. (°C)	~ + 70	+ 85
Coefficient	1.27	1.00

Dimensions

Case Code	L	D	F	D Max.
A	11	5	2	1
B	11	6.3	2.5	1
C	11	8	3.5	1
D	12	10	5	1
E	16	10	5	1
G	20	13	5	1
H	26	13	5	1
I	26	16	7.5	1
J	21	10	5	1
K	32	16	7.5	1
L	36	18	7.5	1
M	20	10	5.0	1