

## F93

### Standard ratings

Rated Volt	Rated Capacitance (μF)	Case code	Part Number	Leakage Current (μA)	Dissipation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ΔC/C (%)
2.5V	47	A	F930E476MAA	1.2	12	2.5	*
	68	A	F930E686MAA	1.7	18	2.5	*
	100	B	F930E107MBA	2.5	14	0.9	*
	150	B	F930E157MBA	3.8	14	0.7	*
	220	B	F930E227MBA	5.5	18	0.7	*
	330	C	F930E337MCC	8.3	16	0.7	*
	470	C	F930E477MCC	11.8	18	0.5	*
	470	N	F930E477MNC	11.8	12	0.3	*
4V	22	A	F930G226MAA	0.9	8	2.5	*
	33	A	F930G336MAA	1.3	8	2.5	*
	47	A	F930G476MAA	1.9	18	2.5	*
	68	A	F930G686MAA	2.7	24	2.5	*
	100	A	F930G107MAA	4.0	30	2.0	*
	100	B	F930G107MBA	4.0	14	0.9	*
	150	B	F930G157MBA	6.0	16	0.7	*
	220	B	F930G227MBA	8.8	18	0.7	*
	220	C	F930G227MCC	8.8	12	0.7	*
	330	C	F930G337MCC	13.2	14	0.7	*
	330	N	F930G337MNC	13.2	10	0.5	*
	470	N	F930G477MNC	18.8	16	0.3	*
680	N	F930G687MNC	27.2	18	0.3	*	
6.3V	4.7	A	F930J475MAA	0.5	6	4.0	*
	6.8	A	F930J685MAA	0.5	6	3.5	*
	10	A	F930J106MAA	0.6	6	3.0	*
	15	A	F930J156MAA	0.9	8	2.9	*
	22	A	F930J226MAA	1.4	8	2.5	*
	22	B	F930J226MBA	1.4	6	1.9	*
	33	A	F930J336MAA	2.1	8	2.5	*
	33	B	F930J336MBA	2.1	8	1.4	*
	47	A	F930J476MAA	3.0	18	2.5	*
	47	B	F930J476MBA	3.0	8	1.0	*
	68	A	F930J686MAA	4.3	20	2.0	*
	68	B	F930J686MBA	4.3	8	1.0	*
	68	C	F930J686MCC	4.3	8	0.8	*
	100	B	F930J107MBA	6.3	14	0.9	*
	100	C	F930J107MCC	6.3	10	0.7	*
	150	B	F930J157MBA	9.5	18	0.9	*
	150	C	F930J157MCC	9.5	12	0.7	*
	220	C	F930J227MCC	13.9	14	0.7	*
220	N	F930J227MNC	13.9	10	0.5	*	
330	N	F930J337MNC	20.8	14	0.5	*	
470	N	F930J477MNC	29.6	16	0.3	*	
10V	4.7	A	F931A475MAA	0.5	6	4.0	*
	6.8	A	F931A685MAA	0.7	6	3.5	*
	10	A	F931A106MAA	1.0	6	3.0	*
	10	B	F931A106MBA	1.0	6	2.1	*
	15	A	F931A156MAA	1.5	8	2.9	*
	15	B	F931A156MBA	1.5	6	2.0	*
	22	A	F931A226MAA	2.2	12	2.5	*
	22	B	F931A226MBA	2.2	8	1.9	*
	33	A	F931A336MAA	3.3	18	2.5	*
	33	B	F931A336MBA	3.3	8	1.4	*
	47	B	F931A476MBA	4.7	8	1.0	*
	47	C	F931A476MCC	4.7	8	0.9	*
	68	C	F931A686MCC	6.8	8	0.8	*
	68	N	F931A686MNC	6.8	6	0.6	*
	100	C	F931A107MCC	10.0	10	0.7	*
	100	N	F931A107MNC	10.0	10	0.6	*
	150	C	F931A157MCC	15.0	14	0.7	*
	150	N	F931A157MNC	15.0	10	0.6	*
	220	N	F931A227MNC	22.0	12	0.5	*
	330	N	F931A337MNC	33.0	18	0.5	*

Rated Volt	Rated Capacitance (μF)	Case code	Part Number	Leakage Current (μA)	Dissipation Factor (%@120Hz)	ESR (Ω@100kHz)	*1 ΔC/C (%)
16V	1.5	A	F931C155MAA	0.5	6	6.0	*
	2.2	A	F931C225MAA	0.5	6	5.0	*
	3.3	A	F931C335MAA	0.5	6	4.5	*
	4.7	A	F931C475MAA	0.8	6	4.0	*
	6.8	A	F931C685MAA	1.1	6	3.5	*
	10	A	F931C106MAA	1.6	6	3.0	*
	10	B	F931C106MBA	1.6	6	2.0	*
	15	A	F931C156MAA	2.4	10	3.0	*
	15	B	F931C156MBA	2.4	8	2.0	*
	22	A	F931C226MAA	3.5	15	3.0	±15
	22	B	F931C226MBA	3.5	8	1.9	*
	22	C	F931C226MCC	3.5	6	1.1	*
	33	B	F931C336MBA	5.3	8	1.9	*
	33	C	F931C336MCC	5.3	8	1.1	*
	47	C	F931C476MCC	7.5	8	0.9	*
	47	N	F931C476MNC	7.5	6	0.7	*
	68	N	F931C686MNC	10.9	8	0.6	*
	100	C	F931C107MCC	16.0	15	0.7	±10
100	N	F931C107MNC	16.0	10	0.6	*	
20V	2.2	A	F931D225MAA	0.5	6	5.0	*
	3.3	A	F931D335MAA	0.7	6	4.5	*
	4.7	A	F931D475MAA	0.9	6	4.0	*
	4.7	B	F931D475MBA	0.9	6	2.8	*
	6.8	A	F931D685MAA	1.4	6	3.5	*
	6.8	B	F931D685MBA	1.4	6	2.5	*
	10	A	F931D106MAA	2.0	8	3.5	*
	10	B	F931D106MBA	2.0	6	2.1	*
	15	C	F931D156MCC	3.0	6	1.2	*
	22	C	F931D226MCC	4.4	8	1.1	*
	33	C	F931D336MCC	6.6	8	1.1	*
	33	N	F931D336MNC	6.6	6	0.7	*
47	N	F931D476MNC	9.4	8	0.7	*	
25V	0.68	A	F931E684MAA	0.5	4	7.6	*
	1	A	F931E105MAA	0.5	4	7.5	*
	1.5	A	F931E155MAA	0.5	6	6.7	*
	2.2	A	F931E225MAA	0.6	6	6.3	*
	3.3	A	F931E335MAA	0.8	6	6.0	*
	4.7	A	F931E475MAA	1.2	8	4.0	*
	4.7	B	F931E475MBA	1.2	6	2.8	*
	10	C	F931E106MCC	2.5	6	1.5	*
	15	C	F931E156MCC	3.8	8	1.2	*
	22	C	F931E226MCC	5.5	8	1.1	*
	22	N	F931E226MNC	5.5	6	0.7	*
	33	N	F931E336MNC	8.3	8	0.7	*
47	N	F931E476MNC	11.8	8	0.7	*	
35V	0.47	A	F931V474MAA	0.5	4	10.0	*
	0.68	A	F931V684MAA	0.5	4	7.6	*
	1	A	F931V105MAA	0.5	4	7.5	*
	1.5	A	F931V155MAA	0.5	6	7.5	*
	2.2	A	F931V225MAA	0.8	6	7.0	*
	2.2	B	F931V225MBA	0.8	6	3.8	*
	3.3	B	F931V335MBA	1.2	6	3.5	*
	4.7	C	F931V475MCC	1.6	6	1.8	*
	6.8	C	F931V685MCC	2.4	6	1.8	*
	10	C	F931V106MCC	3.5	6	1.6	*
	15	N	F931V156MNC	5.3	6	0.7	*
	22	N	F931V226MNC	7.7	8	0.7	*

\* In case of capacitance tolerance ±10% type, **K** will be put at 9th digit of type numbering system.

\*1 : ΔC/C

Item	A · B · C · N Case (%)
Damp Heat	±10
Temperature cycles	±5
Resistance soldering heat	±5
Surge	±5
Endurance	±10

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