

## 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	4.7	A	F930G475MAA	0.5	6	4.0	*	
	6.8	A	F930G685MAA	0.5	6	3.5	*	
	10	A	F930G106MAA	0.5	6	3.0	*	
	15	A	F930G156MAA	0.6	6	2.9	*	
	22	A	F930G226MAA	0.9	8	2.5	*	
	22	B	F930G226MBA	0.9	6	1.9	*	
	33	A	F930G336MAA	1.3	8	2.5	*	
	33	B	F930G336MBA	1.3	6	1.4	*	
	47	A	F930G476MAA	1.9	18	2.5	*	
	47	B	F930G476MBA	1.9	8	1.0	*	
	68	A	F930G686MAA	2.7	24	2.5	*	
	68	B	F930G686MBA	2.7	8	0.8	*	
	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	2.2	A	F930J225MAA	0.5	6	5.0	*	
	3.3	A	F930J335MAA	0.5	6	4.5	*	
	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	*	
	15	B	F930J156MBA	0.9	6	2.0	*	
	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	2.2	A	F931A225MAA	0.5	6	5.0	*
		3.3	A	F931A335MAA	0.5	6	4.5	*
		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	*	
33		C	F931A336MCC	3.3	6	1.1	*	
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	*		
20V	1	A	F931D105MAA	0.5	4	7.5	*	
	1.5	A	F931D155MAA	0.5	6	6.3	*	
	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	*	
3.3		B	F931E335MBA	0.8	6	3.1	*	
4.7		A	F931E475MAA	1.2	8	4.0	*	
4.7		B	F931E475MBA	1.2	6	2.8	*	
6.8		C	F931E685MCC	1.7	6	1.8	*	
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	*	
16V	1	A	F931C105MAA	0.5	4	7.5	*	
	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	*	
	6.8	B	F931C685MBA	1.1	6	2.5	*	
	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	N	F931C107MNC	16.0	10	0.6	*		
20V	1	A	F931D105MAA	0.5	4	7.5	*	
	1.5	A	F931D155MAA	0.5	6	6.3	*	
	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	*	

\* 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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Kyocera AVX:](#)

[F931D155MAA](#) [F930G226MBA](#) [F930J156MBA](#) [F931A335MAA](#) [F930J225MAA](#) [F931E685MCC](#) [F930G156MAA](#)  
[F931E335MBA](#) [F931A225MAA](#) [F931A336MCC](#) [F930J335MAA](#) [F931D105KAA](#) [F931A225KAA](#)