CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

F72

Capacitance		Rated Voltage			
µF	Code	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)
33	336				R
47	476			R	R
68	686		R	R	R
100	107	R	R	R	D*
150	157	R	R	R	
220	227	R	R	R	M
330	337	R	R		M
470	477			M	
680	687			M	
1000	108		M/M(AH1)	M	
1500	158		M		

F75

Capacitance		Rated Voltage			
µF	Code	4V (0G)	6.3V (0J)	10V (1A)	16V (1C)
68	686				C
100	107				C
150	157			C	D
220	227		C	C/D	R
330	337	C	C/D	D	
470	477	C/D	D/U	R/U	
680	687	D	D/R		
1000	108	D/R	R/U		
1500	158	R			
2200	228	R	M		

Released ratings
*Codes under development - subject to change.
Please contact to your local AVX sales office when these series are being designed in your application.

RATINGS & PART NUMBER REFERENCE

F72

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	100kHz RMS Current (mA)			*1 ΔC/C (%)	MSL
							25°C	85°C	125°C		
4 Volt											
F720G107#RC	R	100	4	4.0	8	0.70	463	417	185	*	3
F720G157#RC	R	150	4	6.0	10	0.70	463	417	185	*	3
F720G227#RC	R	220	4	8.8	12	0.70	463	417	185	*	3
F720G337#RC	R	330	4	13.2	12	0.70	463	417	185	*	3
6.3 Volt											
F720J686#RC	R	68	6.3	4.3	6	0.75	447	402	179	*	3
F720J107#RC	R	100	6.3	6.3	8	0.70	463	417	185	*	3
F720J157#RC	R	150	6.3	9.5	10	0.70	463	417	185	*	3
F720J227#RC	R	220	6.3	13.9	12	0.70	463	417	185	*	3
F720J337#RC	R	330	6.3	20.8	12	0.70	463	417	185	*	3
F720J108#MCAQ2	M	1000	6.3	63.0	30	0.14	1118	1006	447	±15	3
F720J108#MCAH1Q2	M	1000	6.3	63.0	30	0.075	1528	1375	611	±15	3
F720J158#MCAQ2	M	1500	6.3	95.0	45	0.14	1118	1006	447	±20	3
10 Volt											
F721A476#RC	R	47	10	4.7	6	0.80	433	390	173	*	3
F721A686#RC	R	68	10	6.8	6	0.75	447	402	179	*	3
F721A107#RC	R	100	10	10.0	8	0.70	463	417	185	*	3
F721A157#RC	R	150	10	15.0	10	0.70	463	417	185	*	3
F721A227#RC	R	220	10	22.0	12	0.70	463	417	185	*	3
F721A477#MCAQ2	M	470	10	47.0	30	0.14	1118	1006	447	±15	3
F721A687#MCAQ2	M	680	10	68.0	35	0.14	1118	1006	447	±20	3
F721A108#MCAQ2	M	1000	10	200	45	0.14	1118	1006	447	±20	3
16 Volt											
F721C336#RC	R	33	16	5.3	6	0.90	408	367	163	*	3
F721C476#RC	R	47	16	7.5	6	0.80	433	390	173	*	3
F721C686#RC	R	68	16	10.9	6	0.75	447	402	179	*	3
F721C107#DCAQ2	D	100	16	16.0	10	0.20	866	779	346	*	3
F721C227#MCAQ2	M	220	16	35.2	12	0.20	935	842	374	±20	3
F721C337#MCAQ2	M	330	16	52.8	45	0.20	935	842	374	±20	3

F75

AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	100kHz RMS Current (mA)			*1 ΔC/C (%)	MSL
							25°C	85°C	125°C		
4 Volt											
F750G337#CC	C	330	4	13.2	10	0.15	856	771	343	*	3
F750G477#CC	C	470	4	18.8	14	0.12	957	862	383	*	3
F750G477#DC	D	470	4	18.8	14	0.12	1118	1006	447	*	3
F750G687#DC	D	680	4	27.2	18	0.12	1118	1006	447	*	3
F750G108#DC	D	1000	4	40.0	24	0.12	1118	1006	447	*	3
F750G108#RC	R	1000	4	40.0	24	0.12	1443	1299	577	*	3
F750G158#RC	R	1500	4	60.0	30	0.12	1443	1299	577	*	3
F750G228#RC	R	2200	4	88.0	45	0.07	1890	1701	756	*	3
6.3 Volt											
F750J227#CC	C	220	6.3	13.9	10	0.20	742	667	297	*	3
F750J337#CC	C	330	6.3	20.8	10	0.15	856	771	343	*	3
F750J337#DC	D	330	6.3	20.8	10	0.15	1000	900	400	*	3
F750J477#DC	D	470	6.3	29.6	14	0.12	1118	1006	447	*	3

RATINGS & PART NUMBER REFERENCE

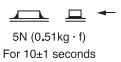
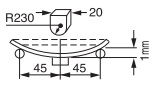
AVX Part No.	Case Size	Capacitance (µF)	Rated Voltage (V)	DCL (µA)	DF @ 120Hz (%)	ESR @ 100kHz (Ω)	100kHz RMS Current (mA)			*1 ΔC/C (%)	MSL
							25°C	85°C	125°C		
F750J477#UC	U	470	6.3	29.6	15	0.10	1049	944	420	*	3
F750J687#DC	D	680	6.3	42.8	18	0.12	1118	1006	447	*	3
F750J687#RC	R	680	6.3	42.8	18	0.12	1443	1299	577	*	3
F750J108#RC	R	1000	6.3	63.0	24	0.12	1443	1299	577	*	3
F750J108#UCAQ2	U	1000	6.3	126	40	0.15	856	771	343	±20	3
F750J228#MCAQ2	M	2200	6.3	139	60	0.08	1581	1423	632	±20	3
10 Volt											
F751A157#CC	C	150	10	15.0	10	0.22	707	636	283	*	3
F751A227#CC	C	220	10	22.0	10	0.20	742	667	297	*	3
F751A227#DC	D	220	10	22.0	10	0.20	866	779	346	*	3
F751A337#DC	D	330	10	33.0	10	0.15	1000	900	400	*	3
F751A477#RC	R	470	10	47.0	14	0.12	1443	1299	577	*	3
F751A477#UCAQ2	U	470	10	94.0	30	0.15	856	771	343	±20	3
16 Volt											
F751C686#CC	C	68	16	10.9	10	0.22	707	636	283	*	3
F751C107#CC	C	100	16	16.0	10	0.22	707	636	283	*	3
F751C157#DC	D	150	16	24.0	10	0.22	826	743	330	*	3
F751C227#RC	R	220	16	35.2	10	0.20	1118	1006	447	*	3

1: ΔC/C Marked ""

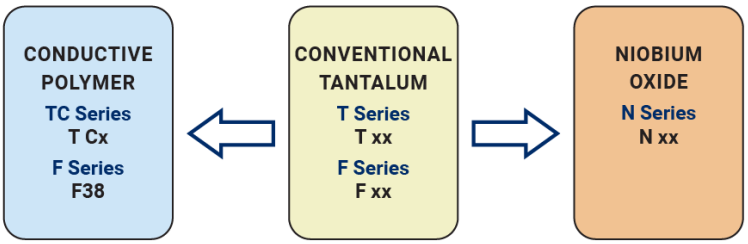
#: "M" for ±20% tolerance, "K" for ± 10% tolerance.
Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

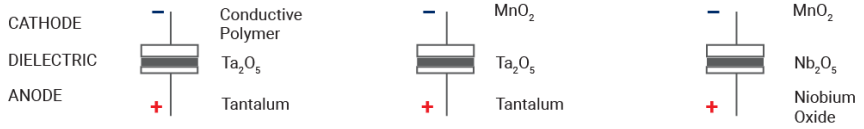
Item	F72/F75 All Case (%)
Damp Heat	±10
Temperature cycles	±5
Resistance soldering heat	±5
Surge	±5
Endurance	±10

QUALIFICATION TABLE

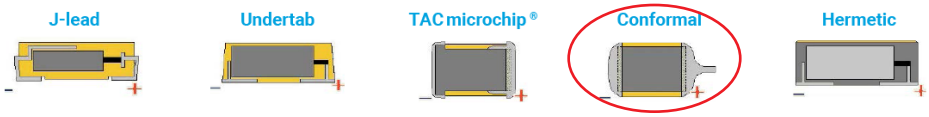
TEST	F72/75 series (Temperature range -55°C to +125°C)
	Condition
Damp Heat (Steady State)	At 40°C, 90 to 95% R.H., 500 hours (No voltage applied) Capacitance Change ..... Refer to page 174 (*1) Dissipation Factor ..... Initial specified value or less Leakage Current ..... Initial specified value or less
Temperature Cycles	At -55°C / +125°C, 30 minutes each, 5 cycles Capacitance Change ..... Refer to page 174 (*1) Dissipation Factor ..... Initial specified value or less Leakage Current ..... Initial specified value or less
Resistance to Soldering Heat	10 seconds reflow at 260°C, 10 seconds immersion at 260°C. Capacitance Change ..... Refer to page 174 (*1) Dissipation Factor ..... Initial specified value or less Leakage Current ..... Initial specified value or less
Surge	After application of surge voltage in series with a 33Ω resistor at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85ºC, capacitors shall meet the characteristic requirements in the table above. Capacitance Change ..... Refer to page 174 (*1) Dissipation Factor ..... Initial specified value or less Leakage Current ..... Initial specified value or less
Endurance	After 2000 hours' application of rated voltage at 85°C, capacitors shall meet the characteristic requirements in the table above. Capacitance Change ..... Refer to page 174 (*1) Dissipation Factor ..... Initial specified value or less Leakage Current ..... Initial specified value or less
Shear Test	After applying the pressure load of 5N for 10±1 seconds horizontally to the center of capacitor side body which has no electrode and has been soldered beforehand on a substrate, there shall be found neither exfoliation nor its sign at the terminal electrode. 
Terminal Strength	Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate at both of the opposite bottom points 45mm apart from the center of capacitor, the pressure strength is applied with a specified jig at the center of substrate so that the substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals. 

AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



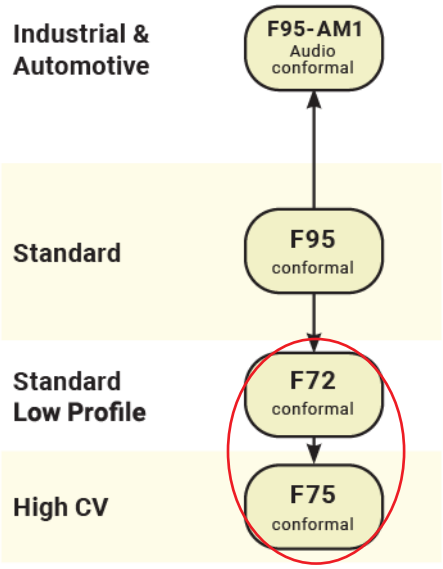


FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP :

CONFORMAL Ta MnO_2



Mouser Electronics

Authorized Distributor

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

Kyocera AVX:

F720J107MRC F721C686KRC F751A477KRC F721A107MRC F750G337KCC F721C336MRC F750J687MDC F721A227KRC F721A476MRC F751C107MCC F720G227MRC F751C227KRC F721C686MRC F750J687MRC F750J477KUC F751A227KCC F720J227MRC F750J227MCC F750J227KCC F751C227MRC F720G157KRC F750G687MDC F721A686KRC F750J337KDC F720J227KRC F750G108KRC F750J477MDC F751A157MCC F750G477MCC F720J337MRC F720G227KRC F750J337MCC F750J337MDC F750G108KDC F751A477MRC F720J337KRC F750G108MRC F750G337MCC F720G157MRC F751A227KDC F751C157KDC F721A227MRC F720J686MRC F750J108KRC F720G337KRC F720G107KRC F721C476KRC F751A337KDC F751A337MDC F750G108MDC F751A227MDC F720J686KRC F750G158MRC F750J477KDC F721A107KRC F750J477MUC F721A476KRC F721A686MRC F720J107KRC F750G158KRC F750G228MRC F720G107MRC F751C157MDC F750G477MDC F751C107KCC F720J157KRC F751C686KCC F721A157MRC F750G228KRC F750J337KCC F750J687KDC F721A157KRC F720G337MRC F750G687KDC F751C686MCC F721C336KRC F751A227MCC F750J687KRC F751A157KCC F720J157MRC F750J108MRC F750G477KCC F721C476MRC F721C227MMCAQ2 F721C337KMCAQ2 F720J158KMCAQ2 F720J158MMCAQ2 F751A477KUCAQ2 F721A477MMCAQ2 F720J108KMCAQ2 F721A108MMCAQ2 F721C227KMCAQ2 F750J108MUCAQ2 F750J228MMCAQ2 F751A477MUCAQ2