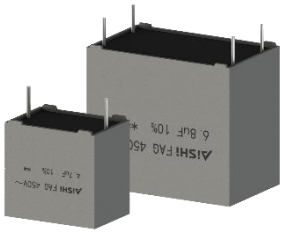
Metallized Polypropylene Film AC Filtering Capacitors
FAA Series – 180VAC ~ 760VAC

Overview
The FAG capacitor is constructed of metallized polypropylene film encapsulated with epoxy resin in a plastic box, with 2 or 4 tinned copper wire.

Applications
Widely used in Clamping, AC and Harmonic Filtering, UPS Systems, Solar Inverter with LCL Filter and Motor Drive.

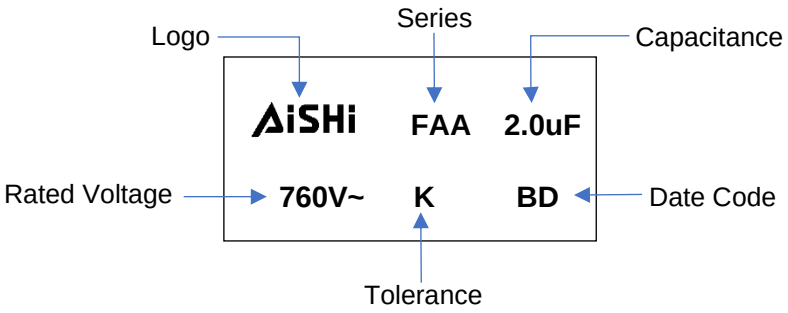
Features
- High ripple current
- Self-healing and low loss
- Optimized AC voltage performance
- Suitable for high frequency applications



Approvals

Marking	Specification	File Number
c UL us	UL 810	E500537

Marking



Manufacturing Date Code

Year	Code	Month	Code
2018	A	Jan	1
2019	B	Feb	2
2020	C	Mar	3
2021	D	Apr	4
2022	E	May	5
2023	F	Jun	6

Year	Code	Month	Code
2024	G	Jul	7
2025	H	Aug	8
2026	J	Sep	9
2027	K	Oct	A
2028	L	Nov	N
2029	M	Dec	D

Part Number System

F	AA	76	K	205	K42	2KL	5
Capacitor Type	Series	Voltage (VAC)	Tolerance	Capacitance (pF)	Size Code	Terminal Code	Lead Length Code
F = Film	AC Filtering, Metallized PP Film	180=18 250=25 300=30 350=35 400=40 450=45 500=50 600=60 760=76	J = ±5% K = ±10%	First two digits = significant figures. Third digit = Number of zeros.	Refer to Size Code Table	Refer to Terminal Code Table	Refer to Lead Length Code Table

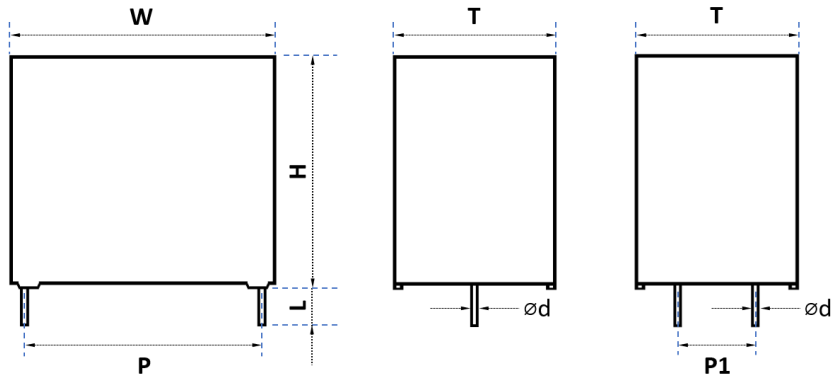
Terminal Code

Digit One (Lead/Terminal Type)		Digit Two (Lead Space)		Digit Three (Lead Ipsilateral)	
2 leads for long	L	27.5mm	G	10.2mm	B
2 leads for straight cut	2	37.5mm	K	12.7mm	G
2 leads for forming cut	E	52.5mm	M	20.3mm	D
4 leads for straight cut	4	N/A	N	N/A	L
6 leads for straight cut	6				

Lead Length Code

Lead Length	
3.0mm	3
4.0mm	4
5.0mm	5
7.0mm	7
20.0mm min	L

Dimension (mm)



2 pins **4 pins**

Size Code Table (mm)

Size Code	Dimension						Pitch				Ød		
	W	Tolerance	H	Tolerance	T	Tolerance	P	Tolerance	P1	Tolerance	4 Leads	2 Leads	Tolerance
G15	32	0.8	18	0.8	9	0.8	27.5	0.5	\	\	\	0.8	0.05
G18	32	0.8	20	0.8	11	0.8	27.5	0.5	\	\	\	0.8	0.05
G21	32	0.8	22	0.8	13	0.8	27.5	0.5	\	\	\	0.8	0.05
G25	32	0.8	24	0.8	14	0.8	27.5	0.5	\	\	\	0.8	0.05
G26	32	0.8	28	0.8	14	0.8	27.5	0.5	\	\	\	0.8	0.05
G27	32	0.8	24.5	0.8	15	0.8	27.5	0.5	\	\	\	0.8	0.05
G33	32	0.8	28	0.8	18	0.8	27.5	0.5	\	\	\	0.8	0.05
G34	32	0.8	33	0.8	18	0.8	27.5	0.5	\	\	\	0.8	0.05
G40	32	0.8	37	0.8	22	0.8	27.5	0.5	10.2	0.5	1.0	0.8	0.05
K14	42	0.8	30	0.8	16	0.8	37.5	0.5	\	\	\	1.0	0.05
K21	42	0.8	32	0.8	19	0.8	37.5	0.5	\	\	\	1.0	0.05
K27	42	0.8	37	0.8	22	0.8	37.5	0.5	10.2	0.5	1.2	1.0	0.05
K32	42	0.8	44	0.8	24	0.8	37.5	0.5	10.2	0.5	1.2	1.0	0.05
K39	42	0.8	43	0.8	28	0.8	37.5	0.5	10.2	0.5	1.2	1.0	0.05
K42	42	0.8	45	0.8	30	0.8	37.5	0.5	20.3	0.5	1.2	1.0	0.05
K47	42	0.8	50	0.8	35	0.8	37.5	0.5	20.3	0.5	1.2	1.0	0.05
M16	57.5	1.0	45	1.0	30	1.0	52.5	0.5	20.3	0.5	1.2	1.2	0.05
M20	57.5	1.0	50	1.0	35	1.0	52.5	0.5	20.3	0.5	1.2	1.2	0.05
M32	57.5	1.0	55	1.0	45	1.0	52.5	0.5	20.3	0.5	1.2	1.2	0.05
M34	57.5	1.0	65	1.0	45	1.0	52.5	0.5	20.3	0.5	1.2	1.2	0.05
M47	57.5	1.0	57.5	1.0	38	1.0	52.5	0.5	20.3	0.5	1.2	1.2	0.05

Rating and Part Number

Vac	Cap Value	Dimensions					Irms	Peak Current	Surge Current	$ESR_{Typical}$	ESL	Thermal Res	dv/dt	Lead Wire	Part Number
		W	H	T	P	P1	10KHz			10KHz					
	μF	mm	mm	mm	mm	mm	A 70°C	A	A	mΩ	nH	°C/W	V/us	mm	
180	4.0	32	22	13	27.5	\	7.0	300	900	6.8	16	45.0	75	0.8	FAA18K405G212GL5
180	5.0	32	28	18	27.5	\	8.0	375	1125	5.5	18	42.6	75	0.8	FAA18K505G332GL5
180	6.8	32	33	18	27.5	\	11.0	510	1530	4.0	20	31.0	75	0.8	FAA18K685G342GL5
180	10	32	37	22	27.5	\	13.0	750	2250	2.8	22	31.7	75	1.0	FAA18K106G402GL5
180	10	42	32	19	37.5	\	10.0	450	1350	5.0	24	30.0	45	1.0	FAA18K106K212KL5
180	15	42	37	22	37.5	\	14.0	675	2025	3.5	24	21.9	45	1.0	FAA18K156K274KL5
180	18	42	44	24	37.5	\	14.0	810	2430	2.8	24	27.3	45	1.0	FAA18K186K324KL5
180	20	42	44	24	37.5	\	15.0	900	2700	2.5	24	26.7	45	1.0	FAA18K206K322KL5
180	22	42	44	24	37.5	\	15.0	990	2970	2.2	26	30.3	45	1.0	FAA18K226K322KL5
180	25	42	45	30	37.5	\	15.0	1125	3375	2.0	26	33.3	45	1.0	FAA18K256K422KL5
180	30	42	50	35	37.5	20.3	18.0	1350	4050	1.8	28	25.7	45	1.2	FAA18K306K472KL5
180	33	42	50	35	37.5	20.3	18.0	1485	4455	1.6	28	28.9	45	1.2	FAA18K336K472KL5
180	40	57.5	45	30	52.5	20.3	20.0	1000	3000	2.5	30	15.0	25	1.2	FAA18K406M164MD5
180	50	57.5	50	35	52.5	20.3	24.0	1250	3750	2.2	32	11.8	25	1.2	FAA18K506M204MD5
180	60	57.5	57.5	38	52.5	20.3	26.0	1500	4500	1.8	32	12.3	25	1.2	FAA18K606M474MD5
250	1.0	32	18	9	27.5	\	3.0	90	270	16.5	16	101.0	90	0.8	FAA25K105G152GL5
250	1.5	32	20	11	27.5	\	4.0	135	405	10.5	16	89.3	90	0.8	FAA25K155G182GL5
250	2.0	32	22	13	27.5	\	5.0	180	540	8.5	16	70.6	90	0.8	FAA25K205G212GL5
250	2.2	32	22	13	27.5	\	6.0	198	594	7.8	16	53.4	90	0.8	FAA25K225G212GL5
250	2.5	32	22	13	27.5	\	6.0	225	675	7.5	16	55.6	90	0.8	FAA25K255G212GL5
250	3.0	32	24.5	15	27.5	\	7.0	270	810	6.5	16	47.1	90	0.8	FAA25K305G272GL5
250	3.3	32	24.5	15	27.5	\	8.0	297	891	6.2	16	37.8	90	0.8	FAA25K335G272GL5
250	3.5	32	28	14	27.5	\	8.0	315	945	5.8	18	40.4	90	0.8	FAA25K355G262GL5
250	4.0	32	28	18	27.5	\	10.0	360	1080	4.8	20	31.3	90	0.8	FAA25K405G332GL5
250	4.5	32	33	18	27.5	\	10.0	405	1215	4.5	20	33.3	90	0.8	FAA25K455G342GL5
250	5.0	32	33	18	27.5	\	11.0	450	1350	4.0	20	31.0	90	0.8	FAA25K505G342GL5
250	6.8	32	37	22	27.5	\	14.0	612	1836	2.8	22	27.3	90	1.0	FAA25K106G402GL5
250	4.7	42	30	16	37.5	\	7.0	282	846	7.5	24	40.8	60	1.0	FAA25K475K142KL5
250	5.0	42	30	16	37.5	\	8.0	300	900	7.0	24	33.5	60	1.0	FAA25K505K142KL5
250	6.0	42	30	16	37.5	\	9.0	360	1080	6.0	24	30.9	60	1.0	FAA25K605K142KL5
250	6.5	42	30	16	37.5	\	10.0	390	1170	5.6	24	26.8	60	1.0	FAA25K655K142KL5
250	6.8	42	32	19	37.5	\	10.5	408	1224	5.4	24	25.2	60	1.0	FAA25K685K212KL5
250	7.5	42	32	19	37.5	\	11.0	450	1350	5.0	24	24.8	60	1.0	FAA25K755K212KL5
250	8.0	42	37	22	37.5	\	12.0	480	1440	4.5	24	23.1	60	1.0	FAA25K805K274KL5
250	10	42	37	22	37.5	\	13.0	600	1800	3.6	24	24.7	60	1.0	FAA25K106K274KL5
250	12	42	44	24	37.5	\	14.0	720	2160	3.0	24	25.5	60	1.0	FAA25K126K324KL5
250	15	42	44	24	37.5	\	14.0	900	2700	2.5	24	30.6	60	1.0	FAA25K156K322KL5
250	18	42	43	28	37.5	\	15.0	1080	3240	2.2	26	30.3	60	1.0	FAA25K186K392KL5
250	20	42	45	30	37.5	\	15.0	1200	3600	2.0	26	33.3	60	1.0	FAA25K206K422KL5
250	22	42	50	35	37.5	20.3	18.0	1320	3960	1.8	28	25.7	60	1.2	FAA25K226K474KD5
250	25	57.5	45	30	52.5	20.3	18.0	750	2250	3.2	30	14.5	30	1.2	FAA25K256M164MD5
250	30	57.5	45	30	52.5	20.3	20.0	900	2700	2.8	30	13.4	30	1.2	FAA25K306M164MD5
250	35	57.5	50	35	52.5	20.3	24.0	1050	3150	2.4	32	10.9	30	1.2	FAA25K356M204MD5
250	40	57.5	57.5	38	52.5	20.3	26.0	1200	3600	2.0	32	11.1	30	1.2	FAA25K406M474MD5
300	1.0	32	20	11	27.5	\	4.0	90	270	12.5	16	75.0	90	0.8	FAA30K105G182GL5
300	1.5	32	22	13	27.5	\	5.0	135	405	8.5	16	70.6	90	0.8	FAA30K155G212GL5
300	2.0	32	24.5	15	27.5	\	6.0	180	540	7.5	16	55.6	90	0.8	FAA30K205G272GL5
300	2.2	32	24.5	15	27.5	\	7.0	198	594	6.8	16	45.0	90	0.8	FAA30K225G272GL5
300	2.5	32	28	14	27.5	\	8.0	225	675	6.5	18	36.1	90	0.8	FAA30K255G262GL5
300	3.0	32	28	18	27.5	\	9.0	270	810	6.0	20	30.9	90	0.8	FAA30K305G332GL5
300	3.3	32	33	18	27.5	\	10.0	297	891	4.8	20	31.3	90	0.8	FAA30K335G342GL5
300	3.5	32	33	18	27.5	\	10.5	315	945	4.6	20	29.6	90	0.8	FAA30K355G342GL5
300	4.0	32	33	18	27.5	\	11.0	360	1080	4.2	20	29.5	90	0.8	FAA30K405G342GL5
300	4.7	32	37	22	27.5	\	13.0	423	1269	3.8	22	23.4	90	1.0	FAA30K475G402GL5
300	5.0	32	37	22	27.5	\	13.5	450	1350	3.6	22	22.9	90	1.0	FAA30K505G402GL5
300	5.6	32	37	22	27.5	\	14.0	504	1512	3.0	22	25.5	90	1.0	FAA30K565G402GL5

Rating and Part Number

Vac	Cap Value	Dimensions					Irms	Peak Current	Surge Current	$ESR_{Typical}$	ESL	Thermal Res	dv/dt	Lead Wire	Part Number
		W	H	T	P	P1	10KHz			10KHz					
	μF	mm	mm	mm	mm	mm	A 70°C	A	A	mΩ	nH	°C/W	V/us	mm	
300	3.0	42	30	16	37.5	\	6.0	180	540	9.0	24	46.3	60	1.0	FAA30K305K142KL5
300	3.3	42	30	16	37.5	\	7.0	198	594	8.5	24	36.0	60	1.0	FAA30K335K142KL5
300	3.5	42	30	16	37.5	\	7.0	210	630	8.0	24	38.3	60	1.0	FAA30K355K142KL5
300	4.0	42	30	16	37.5	\	8.0	240	720	6.8	24	34.5	60	1.0	FAA30K405K142KL5
300	4.5	42	30	16	37.5	\	9.0	270	810	6.0	24	30.9	60	1.0	FAA30K455K142KL5
300	4.7	42	30	16	37.5	\	9.0	282	846	5.8	24	31.9	60	1.0	FAA30K475K142KL5
300	5.0	42	32	19	37.5	\	10.0	300	900	5.5	24	27.3	60	1.0	FAA30K505K212KL5
300	6.0	42	32	19	37.5	\	11.0	360	1080	5.0	24	24.8	60	1.0	FAA30K605K212KL5
300	6.8	42	37	22	37.5	\	12.0	408	1224	4.5	24	23.1	60	1.0	FAA30K685K274KL5
300	8.0	42	37	22	37.5	\	13.0	480	1440	3.6	24	24.7	60	1.0	FAA30K805K274KL5
300	10	42	44	24	37.5	\	14.0	600	1800	3.0	24	25.5	60	1.0	FAA30K106K324KL5
300	12	42	43	28	37.5	\	15.0	720	2160	2.4	26	27.8	60	1.0	FAA30K126K392KL5
300	15	42	45	30	37.5	\	15.0	900	2700	2.2	26	30.3	60	1.0	FAA30K156K422KL5
300	18	42	50	35	37.5	20.3	18.0	1080	3240	2.0	28	23.1	60	1.2	FAA30K186K474KD5
300	18	57.5	45	30	52.5	20.3	16.0	540	1620	3.5	30	16.7	30	1.2	FAA30K186M164MD5
300	20	57.5	45	30	52.5	20.3	18.0	600	1800	3.2	30	14.5	30	1.2	FAA30K206M164MD5
300	25	57.5	50	35	52.5	20.3	20.0	750	2250	3.0	32	12.5	30	1.2	FAA30K256M204MD5
300	30	57.5	57.5	38	52.5	20.3	24.0	900	2700	2.4	32	10.9	30	1.2	FAA30K306M474MD5
350	0.33	32	18	9	27.5	\	1.5	33	99	45.0	16	148.1	100	0.8	FAA35K334G152GL5
350	0.39	32	18	9	27.5	\	1.6	39	117	40.0	16	146.5	100	0.8	FAA35K394G152GL5
350	0.47	32	18	9	27.5	\	2.0	47	141	35.0	16	107.1	100	0.8	FAA35K474G152GL5
350	0.68	32	20	11	27.5	\	2.5	68	204	24.0	16	100.0	100	0.8	FAA35K684G182GL5
350	0.82	32	22	13	27.5	\	3.0	82	246	20.5	16	81.3	100	0.8	FAA35K824G212GL5
350	1.0	32	22	13	27.5	\	3.2	100	300	15.5	16	94.5	100	0.8	FAA35K105G212GL5
350	1.5	32	24.5	15	27.5	\	4.0	150	450	13.0	16	72.1	100	0.8	FAA35K155G272GL5
350	2.0	32	28	18	27.5	\	4.8	200	600	10.8	18	60.3	100	0.8	FAA35K205G332GL5
350	2.2	32	28	18	27.5	\	5.0	220	660	10.2	18	58.8	100	0.8	FAA35K225G332GL5
350	2.5	32	33	18	27.5	\	6.0	250	750	7.0	20	59.5	100	0.8	FAA35K255G342GL5
350	3.0	32	37	22	27.5	\	7.0	300	900	5.8	22	52.8	100	1.0	FAA35K305G402GL5
350	3.3	32	37	22	27.5	\	7.5	330	990	5.2	22	51.3	100	1.0	FAA35K335G402GL5
350	3.5	32	37	22	27.5	\	7.8	350	1050	5.0	22	49.3	100	1.0	FAA35K355G402GL5
350	4.0	32	37	22	27.5	\	8.0	400	1200	4.5	22	52.1	100	1.0	FAA35K405G402GL5
350	2.0	42	30	16	37.5	\	4.5	140	420	12.8	24	57.9	70	1.0	FAA35K205K142KL5
350	2.2	42	30	16	37.5	\	4.8	154	462	12.5	24	52.1	70	1.0	FAA35K225K142KL5
350	2.5	42	30	16	37.5	\	5.2	175	525	11.8	24	47.0	70	1.0	FAA35K255K142KL5
350	3.0	42	30	16	37.5	\	5.5	210	630	10.8	24	45.9	70	1.0	FAA35K305K142KL5
350	3.3	42	30	16	37.5	\	6.0	231	693	8.8	24	47.3	70	1.0	FAA35K335K142KL5
350	3.5	42	30	16	37.5	\	6.5	245	735	8.6	24	41.3	70	1.0	FAA35K355K142KL5
350	4.0	42	32	19	37.5	\	7.0	280	840	8.0	24	38.3	70	1.0	FAA35K405K212KL5
350	4.5	42	37	22	37.5	\	8.0	315	945	7.0	24	33.5	70	1.0	FAA35K455K274KL5
350	5.0	42	37	22	37.5	\	8.5	350	1050	6.8	24	30.5	70	1.0	FAA35K505K274KL5
350	5.5	42	37	22	37.5	\	8.8	385	1155	6.4	24	30.3	70	1.0	FAA35K555K274KL5
350	6.0	42	44	24	37.5	\	9.5	420	1260	6.0	24	27.7	70	1.0	FAA35K605K324KL5
350	6.5	42	44	24	37.5	\	10.0	455	1365	5.5	24	27.3	70	1.0	FAA35K655K324KL5
350	7.0	42	44	24	37.5	\	10.5	490	1470	5.2	24	26.2	70	1.0	FAA35K705K324KL5
350	8.0	42	44	24	37.5	\	10.5	560	1680	5.2	24	26.2	70	1.0	FAA35K805K324KL5
350	8.5	42	43	28	37.5	\	11.0	595	1785	4.8	26	25.8	70	1.0	FAA35K855K392KL5
350	9.0	42	43	28	37.5	\	11.0	630	1890	4.6	26	26.9	70	1.0	FAA35K905K392KL5
350	9.5	42	45	30	37.5	\	11.5	665	1995	4.4	26	25.8	70	1.0	FAA35K955K422KL5
350	10	42	45	30	37.5	\	12.0	700	2100	4.2	26	24.8	70	1.0	FAA35K106K422KL5
350	12	42	50	35	37.5	20.3	14.0	840	2520	3.6	28	21.3	70	1.2	FAA35K126K474KD5
350	15	57.5	45	30	52.5	20.3	16.5	600	1800	3.5	30	15.7	40	1.2	FAA35K156M164MD5
350	18	57.5	50	35	52.5	20.3	18.0	720	2160	3.0	32	15.4	40	1.2	FAA35K186M204MD5
350	20	57.5	57.5	38	52.5	20.3	20.0	800	2400	2.8	32	13.4	40	1.2	FAA35K206M474MD5
350	22	57.5	57.5	38	52.5	20.3	22.0	880	2640	2.6	32	11.9	40	1.2	FAA35K226M474MD5
350	25	57.5	55	45	52.5	20.3	24.0	1000	3000	2.4	32	10.9	40	1.2	FAA35K256M324MD5

Rating and Part Number

Vac	Cap Value µF	Dimensions W mm	H mm	T mm	P mm	P1 mm	Irms 10KHz A 70°C	Peak Current A	Surge Current A	$ESR_{Typical}$ 10KHz mΩ	ESL nH	Thermal Res °C/W	dv/dt V/us	Lead Wire mm	Part Number
350	30	57.5	65	45	52.5	20.3	26.0	1200	3600	2.2	32	10.1	40	1.2	FAA35K306M344MD5
400	0.33	32	18	9	27.5	\	1.5	40	119	45.0	16	148.1	120	0.8	FAA40K334G152GL5
400	0.39	32	18	9	27.5	\	1.6	47	140	40.0	16	146.5	120	0.8	FAA40K394G152GL5
400	0.47	32	18	9	27.5	\	2.0	56	169	35.0	16	107.1	120	0.8	FAA40K474G152GL5
400	0.68	32	20	11	27.5	\	2.5	82	245	24.0	16	100.0	120	0.8	FAA40K684G182GL5
400	0.82	32	22	13	27.5	\	3.0	98	295	20.5	16	81.3	120	0.8	FAA40K824G212GL5
400	1.0	32	24	14	27.5	\	3.2	120	360	15.5	16	94.5	120	0.8	FAA40K105G252GL5
400	1.5	32	28	18	27.5	\	4.8	180	540	10.8	18	60.3	120	0.8	FAA40K155G332GL5
400	2.0	32	33	18	27.5	\	6.0	240	720	7.0	20	59.5	120	0.8	FAA40K205G342GL5
400	2.2	32	33	18	27.5	\	6.0	264	792	7.0	20	59.5	120	0.8	FAA40K225G342GL5
400	2.5	32	37	22	27.5	\	7.0	300	900	5.8	22	52.8	120	1.0	FAA40K255G402GL5
400	3.0	32	37	22	27.5	\	7.5	360	1080	5.2	22	51.3	120	1.0	FAA40K305G402GL5
400	2.0	42	30	16	37.5	\	4.5	160	480	12.8	24	57.9	80	1.0	FAA40K205K142KL5
400	2.2	42	30	16	37.5	\	4.8	176	528	12.5	24	52.1	80	1.0	FAA40K225K142KL5
400	2.5	42	30	16	37.5	\	5.2	200	600	11.8	24	47.0	80	1.0	FAA40K255K142KL5
400	3.0	42	32	19	37.5	\	6.0	240	720	8.8	24	47.3	80	1.0	FAA40K305K212KL5
400	3.3	42	32	19	37.5	\	6.5	264	792	8.6	24	41.3	80	1.0	FAA40K335K212KL5
400	3.5	42	37	22	37.5	\	7.0	280	840	8.0	24	38.3	80	1.0	FAA40K355K274KL5
400	4.0	42	37	22	37.5	\	8.0	320	960	7.0	24	33.5	80	1.0	FAA40K405K274KL5
400	4.5	42	37	22	37.5	\	8.5	360	1080	6.8	24	30.5	80	1.0	FAA40K455K274KL5
400	5.0	42	44	24	37.5	\	9.5	400	1200	6.0	24	27.7	80	1.0	FAA40K505K324KL5
400	5.5	42	44	24	37.5	\	10.0	440	1320	5.5	24	27.3	80	1.0	FAA40K555K324KL5
400	6.0	42	43	28	37.5	\	10.5	480	1440	4.8	26	28.3	80	1.0	FAA40K605K392KL5
400	6.5	42	43	28	37.5	\	10.5	520	1560	4.6	26	29.6	80	1.0	FAA40K655K392KL5
400	7.0	42	43	28	37.5	\	11.0	560	1680	4.4	26	28.2	80	1.0	FAA40K705K392KL5
400	7.5	42	45	30	37.5	\	11.0	600	1800	4.4	26	28.2	80	1.0	FAA40K755K422KL5
400	8.0	42	45	30	37.5	\	11.5	640	1920	4.2	26	27.0	80	1.0	FAA40K805K422KL5
400	9.0	42	50	35	37.5	20.3	12.5	720	2160	4.0	28	24.0	80	1.2	FAA40K905K474KD5
400	10	42	50	35	37.5	20.3	14.0	800	2400	3.6	28	21.3	80	1.2	FAA40K106K474KD5
400	10	57.5	45	30	52.5	20.3	12.5	500	1500	4.2	30	22.9	50	1.2	FAA40K106M164MD5
400	12	57.5	50	35	52.5	20.3	14.0	600	1800	3.8	32	20.1	50	1.2	FAA40K126M204MD5
400	14	57.5	50	35	52.5	20.3	16.0	700	2100	3.6	32	16.3	50	1.2	FAA40K146M204MD5
400	18	57.5	57.5	38	52.5	20.3	20.0	900	2700	3.0	32	12.5	50	1.2	FAA40K186M474MD5
400	20	57.5	55	45	52.5	20.3	22.0	1000	3000	2.8	32	11.1	50	1.2	FAA40K206M324MD5
400	22	57.5	65	45	52.5	20.3	24.0	1100	3300	2.5	32	10.4	50	1.2	FAA40K226M344MD5
400	25	57.5	65	45	52.5	20.3	26.0	1250	3750	2.2	32	10.1	50	1.2	FAA40K256M344MD5
500	0.22	32	18	9	27.5	\	1.5	31	92	45.0	16	148.1	140	0.8	FAA50K224G152GL5
500	0.27	32	18	9	27.5	\	1.6	38	113	40.0	16	146.5	140	0.8	FAA50K274G152GL5
500	0.33	32	20	11	27.5	\	2.5	46	139	24.0	16	100.0	140	0.8	FAA50K334G182GL5
500	0.39	32	20	11	27.5	\	2.5	55	164	24.0	16	100.0	140	0.8	FAA50K394G182GL5
500	0.47	32	22	13	27.5	\	2.8	66	197	21.5	16	89.0	140	0.8	FAA50K474G212GL5
500	0.56	32	22	13	27.5	\	3.0	78	235	20.5	16	81.3	140	0.8	FAA50K564G212GL5
500	0.68	32	24.5	15	27.5	\	3.5	95	286	15.5	16	79.0	140	0.8	FAA50K684G272GL5
500	0.82	32	28	18	27.5	\	4.8	115	344	12.5	18	52.1	140	0.8	FAA50K824G332GL5
500	1.0	32	33	18	27.5	\	6.0	140	420	9.0	20	46.3	140	0.8	FAA50K105G342GL5
500	1.2	32	33	18	27.5	\	6.0	168	504	9.0	20	46.3	140	0.8	FAA50K125G342GL5
500	1.5	32	37	22	27.5	\	7.0	210	630	8.5	22	36.0	140	1.0	FAA50K155G402GL5
500	1.8	32	37	22	27.5	\	7.5	252	756	7.8	22	34.2	140	1.0	FAA50K185G402GL5
500	1.0	42	30	16	37.5	\	4.5	90	270	12.8	24	57.9	90	1.0	FAA50K105K142KL5
500	1.2	42	30	16	37.5	\	4.8	108	324	12.5	24	52.1	90	1.0	FAA50K125K142KL5
500	1.5	42	30	16	37.5	\	5.2	135	405	11.8	24	47.0	90	1.0	FAA50K155K142KL5
500	1.8	42	32	19	37.5	\	6.0	162	486	9.0	24	46.3	90	1.0	FAA50K185K212KL5
500	2.0	42	32	19	37.5	\	6.5	180	540	8.6	24	41.3	90	1.0	FAA50K205K212KL5
500	2.5	42	37	22	37.5	\	7.0	225	675	8.0	24	38.3	90	1.0	FAA50K255K274KL5
500	2.8	42	37	22	37.5	\	8.0	252	756	7.0	24	33.5	90	1.0	FAA50K285K274KL5
500	3.0	42	37	22	37.5	\	8.5	270	810	6.8	24	30.5	90	1.0	FAA50K305K274KL5

Rating and Part Number

Vac	Cap Value	Dimensions					Irms	Peak Current	Surge Current	$ESR_{Typical}$	ESL	Thermal Res	dv/dt	Lead Wire	Part Number
	µF	W	H	T	P	P1	10KHz			10KHz					
		mm	mm	mm	mm	mm	A 70°C	A	A	mΩ	nH	°C/W	V/us	mm	
500	3.5	42	44	24	37.5	\	9.5	315	945	6.0	24	27.7	90	1.0	FAA50K355K324KL5
500	4.0	42	43	28	37.5	\	10.5	360	1080	4.8	26	28.3	90	1.0	FAA50K405K392KL5
500	4.5	42	43	28	37.5	\	10.5	405	1215	4.8	26	28.3	90	1.0	FAA50K455K392KL5
500	5.0	42	45	30	37.5	\	11.0	450	1350	4.5	26	27.5	90	1.0	FAA50K505K422KL5
500	5.5	42	50	35	37.5	20.3	12.5	495	1485	4.2	28	22.9	90	1.2	FAA50K555K474KD5
500	6.0	42	50	35	37.5	20.3	14.0	540	1620	3.8	28	20.1	90	1.2	FAA50K605K474KD5
500	7.0	57.5	45	30	52.5	20.3	12.5	420	1260	4.2	30	22.9	60	1.2	FAA50K705M164MD5
500	8.0	57.5	50	35	52.5	20.3	14.0	480	1440	3.8	32	20.1	60	1.2	FAA50K805M204MD5
500	9.0	57.5	50	35	52.5	20.3	16.0	540	1620	3.6	32	16.3	60	1.2	FAA50K905M204MD5
500	10	57.5	57.5	38	52.5	20.3	18.0	600	1800	3.4	32	13.6	60	1.2	FAA50K106M474MD5
500	12	57.5	57.5	38	52.5	20.3	20.0	720	2160	3.2	32	11.7	60	1.2	FAA50K126M474MD5
500	15	57.5	65	45	52.5	20.3	22.0	900	2700	3.0	32	10.3	60	1.2	FAA50K156M344MD5
600	0.15	32	18	9	27.5	\	1.5	24	72	45.0	16	148.1	160	0.8	FAA60K154G152GL5
600	0.22	32	20	11	27.5	\	2.5	35	106	24.0	16	100.0	160	0.8	FAA60K224G182GL5
600	0.33	32	22	13	27.5	\	2.8	53	158	21.5	16	89.0	160	0.8	FAA60K334G212GL5
600	0.47	32	24.5	15	27.5	\	3.2	75	226	15.5	16	94.5	160	0.8	FAA60K474G272GL5
600	0.56	32	28	14	27.5	\	4.0	90	269	12.5	18	75.0	160	0.8	FAA60K564G262GL5
600	0.68	32	28	18	27.5	\	4.8	109	326	10.8	18	60.3	160	0.8	FAA60K684G332GL5
600	0.82	32	33	18	27.5	\	6.0	131	394	7.0	20	59.5	160	0.8	FAA60K824G342GL5
600	1.0	32	33	18	27.5	\	6.0	160	480	7.0	20	59.5	160	0.8	FAA60K105G342GL5
600	1.2	32	37	22	27.5	\	7.0	192	576	5.8	22	52.8	160	1.0	FAA60K125G402GL5
600	1.0	42	30	16	37.5	\	4.5	100	300	12.8	24	57.9	100	1.0	FAA60K105K142KL5
600	1.2	42	32	19	37.5	\	6.0	120	360	8.8	24	47.3	100	1.0	FAA60K125K212KL5
600	1.5	42	32	19	37.5	\	6.5	150	450	8.6	24	41.3	100	1.0	FAA60K155K212KL5
600	1.8	42	37	22	37.5	\	7.0	180	540	8.0	24	38.3	100	1.0	FAA60K185K274KL5
600	2.0	42	37	22	37.5	\	8.0	200	600	7.0	24	33.5	100	1.0	FAA60K205K274KL5
600	2.2	42	44	24	37.5	\	9.0	220	660	6.5	24	28.5	100	1.0	FAA60K225K324KL5
600	2.5	42	44	24	37.5	\	9.5	250	750	6.0	24	27.7	100	1.0	FAA60K255K324KL5
600	2.8	42	43	28	37.5	\	10.0	280	840	5.5	26	27.3	100	1.0	FAA60K285K392KL5
600	3.0	42	45	30	37.5	\	10.5	300	900	5.0	26	27.2	100	1.0	FAA60K305K422KL5
600	3.5	42	50	35	37.5	20.3	12.5	350	1050	4.5	28	21.3	100	1.2	FAA60K335K474KD5
600	4.0	42	50	35	37.5	20.3	14.0	400	1200	4.0	28	19.1	100	1.2	FAA60K405K474KD5
600	4.5	57.5	45	30	52.5	20.3	12.5	315	945	4.5	30	21.3	70	1.2	FAA60K455M164MD5
600	5.0	57.5	45	30	52.5	20.3	13.5	350	1050	4.2	30	19.6	70	1.2	FAA60K505M164MD5
600	6.0	57.5	50	35	52.5	20.3	14.0	420	1260	4.0	32	19.1	70	1.2	FAA60K605M204MD5
600	6.5	57.5	50	35	52.5	20.3	16.0	455	1365	3.8	32	15.4	70	1.2	FAA60K655M204MD5
600	7.0	57.5	57.5	38	52.5	20.3	18.0	490	1470	3.6	32	12.9	70	1.2	FAA60K705M474MD5
600	7.5	57.5	57.5	38	52.5	20.3	19.0	525	1575	3.4	32	12.2	70	1.2	FAA60K755M474MD5
600	8.0	57.5	57.5	38	52.5	20.3	20.0	560	1680	3.2	32	11.7	70	1.2	FAA60K805M474MD5
600	10	57.5	65	45	52.5	20.3	22.0	700	2100	3.0	32	10.3	70	1.2	FAA60K106M344MD5
760	0.1	32	18	9	27.5	\	1.5	20	60	45.0	16	148.1	200	0.8	FAA76K104G152GL5
760	0.15	32	20	11	27.5	\	2.5	30	90	24.0	16	100.0	200	0.8	FAA76K154G182GL5
760	0.22	32	22	13	27.5	\	2.8	44	132	21.5	16	89.0	200	0.8	FAA76K224G212GL5
760	0.33	32	24.5	15	27.5	\	3.2	66	198	15.5	16	94.5	200	0.8	FAA76K334G272GL5
760	0.47	32	28	18	27.5	\	4.5	94	282	12.0	18	61.7	200	0.8	FAA76K474G332GL5
760	0.56	32	33	18	27.5	\	5.0	112	336	10.5	20	57.1	200	0.8	FAA76K564G342GL5
760	0.68	32	37	22	27.5	\	6.0	136	408	9.5	22	43.9	200	1.0	FAA76K684G402GL5
760	0.68	42	30	16	37.5	\	4.5	82	245	12.8	24	57.9	120	1.0	FAA76K684K142KL5
760	0.82	42	32	19	37.5	\	5.5	98	295	10.0	24	49.6	120	1.0	FAA76K824K212KL5
760	1.0	42	32	19	37.5	\	6.5	120	360	9.0	24	39.4	120	1.0	FAA76K105K212KL5
760	1.2	42	37	22	37.5	\	7.0	144	432	8.5	24	36.0	120	1.0	FAA76K125K274KL5
760	1.5	42	44	24	37.5	\	8.0	180	540	7.5	24	31.3	120	1.0	FAA76K155K324KL5
760	1.8	42	43	28	37.5	\	9.5	216	648	6.5	26	25.6	120	1.0	FAA76K185K392KL5
760	2.0	42	45	30	37.5	\	10.5	240	720	5.0	26	27.2	120	1.0	FAA76K205K422KL5
760	2.5	42	50	35	37.5	20.3	12.5	300	900	4.5	28	21.3	120	1.2	FAA76K255K474KD5
760	3.0	57.5	45	30	52.5	20.3	12.5	240	720	4.5	30	21.3	80	1.2	FAA76K305M164MD5

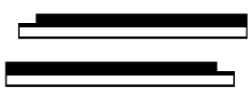
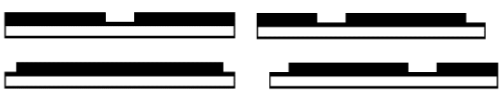
Rating and Part Number

Vac	Cap Value µF	Dimensions					Irms 10KHz	Peak Current	Surge Current	$ESR_{Typical}$ 10KHz	ESL	Thermal Res	dv/dt	Lead Wire	Part Number
		W	H	T	P	P1									
		mm	mm	mm	mm	mm	A 70°C	A	A	mΩ	nH	°C/W	V/us	mm	
760	4.0	57.5	50	35	52.5	20.3	14.0	320	960	4.0	32	19.1	80	1.2	FAA76K405M204MD5
760	5.0	57.5	57.5	38	52.5	20.3	16.0	400	1200	3.6	32	16.3	80	1.2	FAA76K505M474MD5
760	6.0	57.5	55	45	52.5	20.3	18.0	480	1440	3.4	32	13.6	80	1.2	FAA76K605M324MD5
760	7.0	57.5	65	45	52.5	20.3	20.0	560	1680	3.2	32	11.7	80	1.2	FAA76K705M344MD5

General Technical Data

Applications	AC Filtering
Dielectric	Metallized Polypropylene Film
Reference Standard	IEC 61071/EN 61071
Climatic Category	40/85/56 IEC 60068-1
Operating Temperature Range	-40°C ~ +105°C (85°C ~105°C, decreasing factor 1.35% per °C for Urms)
Protection	Solvent resistant plastic case UL94 V-0 Thermosetting resin sealing UL 94 V-0 compliant
Installation	Any position
Packaging	Packed in cardboard boxes with protection for the terminals
Storage Conditions	Storage time: ≤24months from the date marked on the label package Average relative humidity per year ≤70% RH≤85% for 30 days randomly distributed throughout the year Dew is absent Temperature: -40°C ~ +85°C
Storage Life	Product that passed less than 2 years from production, No need reconfirmation
RoHS Compliance	Compliant with the restricted substance requirement of Directive 2011/65/EU
Flame Retardant Grade	Flame retardant performance accords with horizontal combustion grade HB and vertical combustion grade V-0.

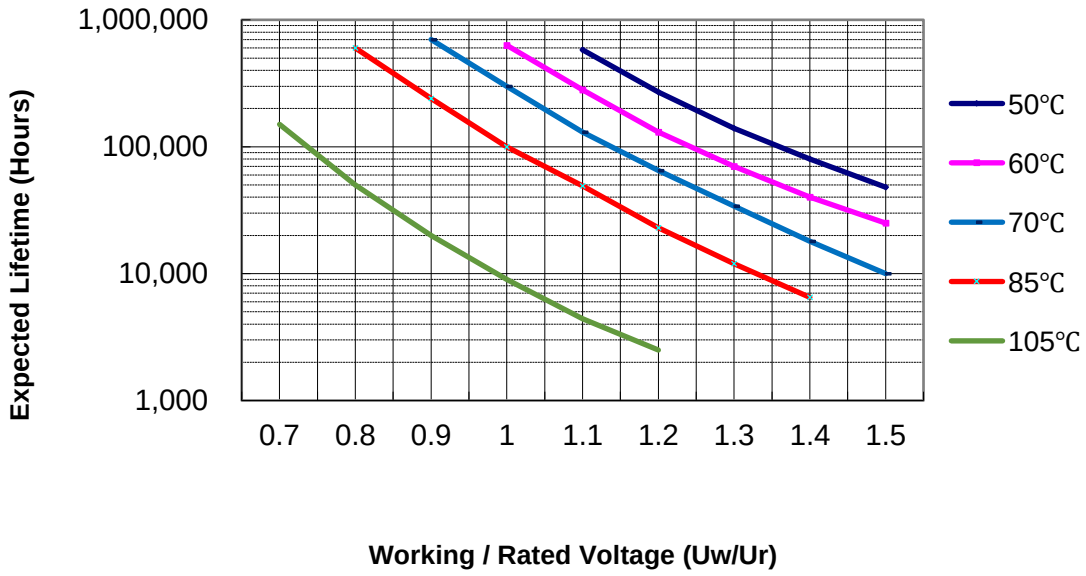
Construction

Metallized Film	OPP & Al/Zn
Metal Sprayed	Sn/Zn Alloy
Connection Electrode	Tinned copper wires
Case	Plastic Case (UL94V-0)
Filling	Epoxy Resin (UL94V-0)
Film Construction	Mono Structure  Internal Series Connection 

Electrical Characteristics

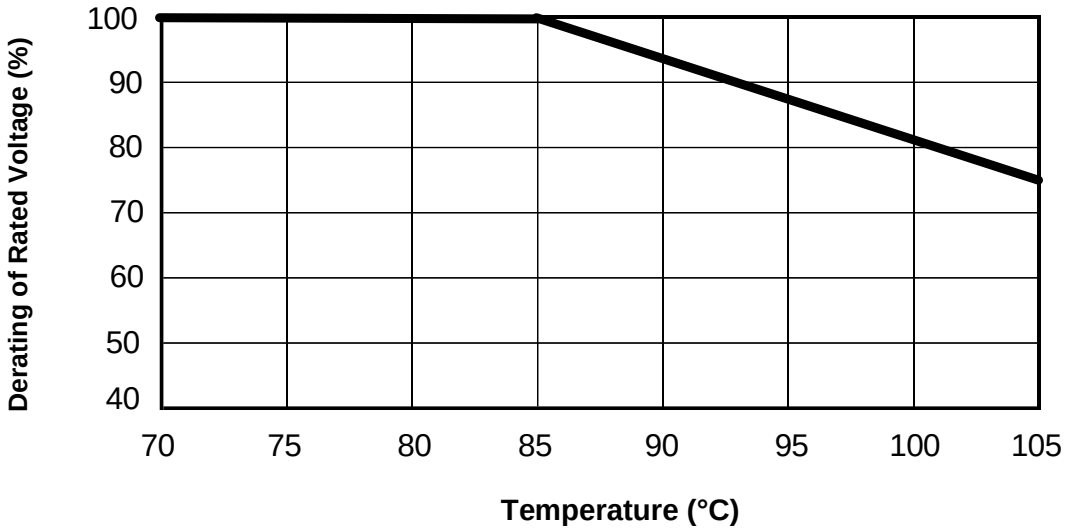
Voltage Range	180Vac ~ 760Vac
Capacitance Range	0.1uF ~60uF
Capacitance Tolerance	±5% or ±10% at +25°C
Capacitance	Measuring Frequency at 1kHZ Measuring Voltage:1±0.2V
Standard Atmospheric Conditions for Static Test	**Ambient temperature** 15°C to 35°C (If there is any doubt on the results, the measurements shall be made at +20 +/- 5°C) **Relative humidity** 45% to 75% (If there is any doubt on the results, the measurements shall be made at 60% to 70 %.) **Air pressure** 86 kPa to 106 kPa.
Voltage Between Terminals U_{TT}	1.5 x V_R Vac for 10 seconds (between terminations) @ +25°C ±5°C
Voltage Between Terminals and Case U_{TC}	3000V_{AC}, 50/60Hz 60s（at+25+/-5°C）
Dielectric Dissipation Factor Tgδ 0	≤2×10^{-4}
Dissipation factor	≤ 0.002 (0.20%) at 1 KHz. C≤20uF at +25°C ≤ 0.003 (0.30%) at 1 KHz. C>20uF at +25°C
Insulation Resistance	RC between leads, IR xC≥30,000 s at 100vdc 1minute at +25°C
Self-Inductance	<1nH per mm of lead spacing
Hot-Spot	≤85°C
Life Expectancy	100,000 hours (UR，Θhotspot=85°C)
Failure Rate	100 Fit
Max. Altitude	2000 m
Overvoltage Apply 110% of rated voltage Apply 115% of rated voltage Apply 120% of rated voltage Apply 130% of rated voltage	**Maximum duration within one day** 30% of on-load duration 30 mins 5 mins 1 min

Expected Life Curve

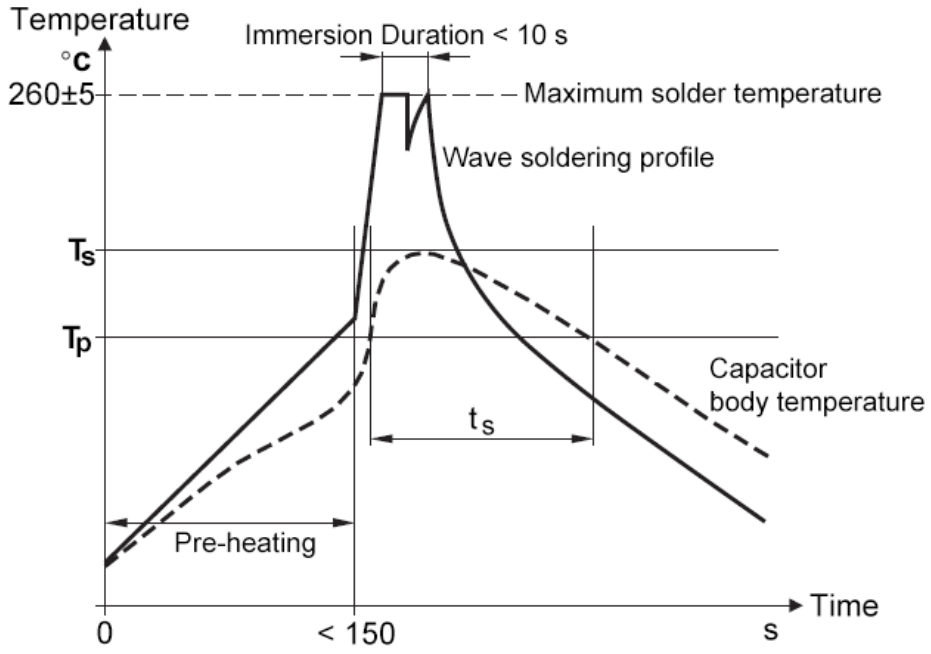


Derating of Rated Voltage Vs Temperature

(85°C ~105°C, decreasing factor 1.35% per °C for Urms)



Wave Soldering Recommendations

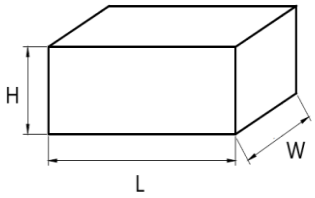


Ts: Capacitor body maximum temperature at wave soldering
Tp: Capacitor body maximum temperature at pre-heating

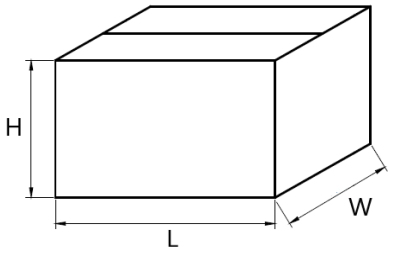
Polypropylene Capacitors	Polyester Capacitors
During pre-heating: Tp≤110°C During soldering: Ts ≤120°C, ts≤60	During pre-heating: Tp≤130°C During soldering: Ts≤160°C, ts≤60s

Packaging Information

Inner Box Specifications (Dimensions)			
Box #	L ±3mm	W±3mm	H ±3mm
# 1	331	331	25
# 2	331	331	35
# 3	331	331	50
# 4	331	331	80
# 5	350	170	35
# 6	350	170	50
# 7	350	170	80



Outer Box Specifications (Dimensions)			
Box #	L ±5mm	W±5mm	H ±5mm
# 1	350	340	265
# 2	370	360	350



Packaging Quantity

Pitch	Size Code	Dimension			Packaging Quantity	
		W	H	T	Long Leads	Short Leads
27.5	G15	32	18	9	340	340
	G18	32	20	11	280	280
	G21	32	22	13	230	230
	G25	32	24	14	220	220
	G26	32	28	14	220	220
	G27	32	24.5	15	200	200
	G33	32	28	18	170	170
	G34	32	33	18	170	170
	G40	32	37	22	140	140
37.5	K14	42	30	16	133	133
	K21	42	32	19	112	112
	K27	42	37	22	98	98
	K32	42	44	24	91	91
	K39	42	43	28	77	77
	K42	42	45	30	70	70
	K47	42	50	35	63	63
52.5	M16	57.5	45	30	50	50
	M20	57.5	50	35	45	45
	M32	57.5	55	45	35	35
	M34	57.5	65	45	35	35
	M47	57.5	57.5	38	40	40

Cautions and Warnings

- Don't exceed the upper category temperature.
- For longtime storage, maximum relative humidity 80%, no dew allowed on the capacitor.
- Do not use or store capacitor in corrosive atmosphere, in the dusty environment's regular maintenance and cleaning especially of the terminals is required to avoid conductive path between terminal / or terminal and ground.
- Don't apply any mechanical stress to the capacitor terminals, and avoid any compressive, tensile or flexural stress.
- Don't move the capacitor after fixed to the PC board, and don't pick up the PC bord by the fixed capacitor.
- Don't place the capacitor on a PC board whose holes pacse differs from the specified space.
- Avoid overload of the capacitors
- Do not have unlimited service life expectancy, the max service life expectancy may vary depending on the application the capacitor is used in.

Disclaimer

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