

Double Metallized Polypropylene Film Capacitors

FGC Series - 630 ~ 2000VDC (DC / Pulse and High Frequency Applications)



Overview

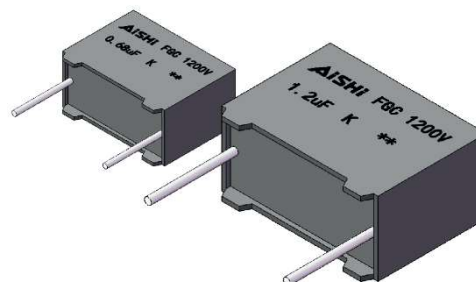
The FGC series is constructed of metallized polypropylene film and double-sided metallized film as electrodes with radial leads of tinned wires. The capacitor is encapsulated in plastic cases, sealed with epoxy resin.

Applications

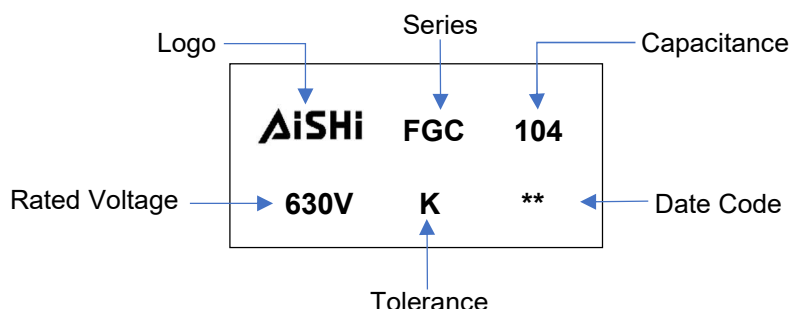
Widely used in monitors (S-correction and flyback tuning), ballasts and compacts lamps, snubber and power supplies

Features

- High ripple current
- Self-healing property
- Low losses
- High contact reliability
- Suitable for high frequency applications
- Negative temperature coefficient of capacitance



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	GC	3K	K	104	E43	2EL	5
Capacitor Type	Series	Voltage (VDC)	Tolerance	Capacitance (pF)	Size Code	Terminal Code	Lead Length Code
F = Film	DC Film, Double Sided Metallized PP Film	100=1K 250=2E 400=2G 630=2L	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

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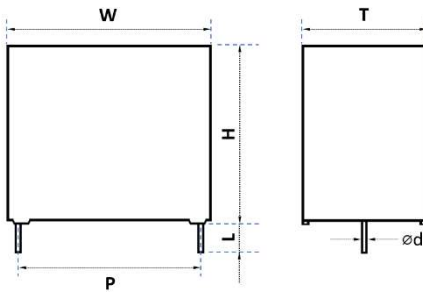
Terminal Code

Digit One (Lead/Terminal Type)	Digit Two (Lead Space)	Digit Three (Lead Ipsilateral)
2 leads for long	L	10.0mm C
2 leads for straight cut	2	12.5mm D
2 leads for forming cut	E	15.0mm E
2 leads for taping forming	T	22.5mm F
2 leads for taping straight	V	27.5mm G
		37.5mm K

Lead Length Code

Lead Length	Code
20mm min	L
35mm min	B
3.2mm	1
3.5mm	2
3.0mm	3
4.0mm	4
5.0mm	5
7.0mm	7
Taping	T
N/A	N

Dimension (mm)



Size Code Table (mm)

Size Code	Dimension						Pitch		Ød	
	W	Tolerance	H	Tolerance	T	Tolerance	P	Tolerance	2 Leads	Tolerance
C11	13.0	0.5	9.0	0.5	4.0	0.5	10.0	0.5	0.6	0.05
C13	13.0	0.5	11.0	0.5	5.0	0.5	10.0	0.5	0.6	0.05
C16	13.0	0.5	12.0	0.5	6.0	0.5	10.0	0.5	0.6	0.05
C24	13.0	0.5	13.0	0.5	7.0	0.5	10.0	0.5	0.6	0.05
E14	18.0	0.5	11.0	0.5	5.0	0.5	15.0	0.5	0.6	0.05
E17	18.0	0.5	12.0	0.5	6.0	0.5	15.0	0.5	0.6	0.05
E29	18.0	0.5	13.5	0.5	7.5	0.5	15.0	0.5	0.8	0.05
E34	18.0	0.5	14.5	0.5	8.5	0.5	15.0	0.5	0.8	0.05
E43	18.0	0.5	16.0	0.5	10.0	0.5	15.0	0.5	0.8	0.05
E47	18.0	0.5	19.0	0.5	11.0	0.5	15.0	0.5	0.8	0.05
F17	26.0	0.5	16.5	0.5	7.0	0.5	22.5	0.5	0.8	0.05
F20	26.0	0.5	17.0	0.5	8.5	0.5	22.5	0.5	0.8	0.05
F24	26.0	0.5	19.0	0.5	10.0	0.5	22.5	0.5	0.8	0.05
F26	26.0	0.5	20.0	0.5	11.0	0.5	22.5	0.5	0.8	0.05
F27	26.0	0.5	22.0	0.5	12.0	0.5	22.5	0.5	0.8	0.05
G18	32.0	0.8	20.0	0.8	11.0	0.8	27.5	0.5	0.8	0.05
G21	32.0	0.8	22.0	0.8	13.0	0.8	27.5	0.5	0.8	0.05
G22	32.0	0.8	24.5	0.8	13.0	0.8	27.5	0.5	0.8	0.05
G26	32.0	0.8	28.0	0.8	14.0	0.8	27.5	0.5	0.8	0.05
G34	32.0	0.8	33.0	0.8	18.0	0.8	27.5	0.5	0.8	0.05
G40	32.0	0.8	37.0	0.8	22.0	0.8	27.5	0.5	0.8	0.05
K21	42.5	0.8	32.0	0.8	19.0	0.8	37.5	0.5	1.0	0.05
K24	42.5	0.8	40.0	0.8	20.0	0.8	37.5	0.5	1.0	0.05
K32	42.5	0.8	44.0	0.8	24.0	0.8	37.5	0.5	1.0	0.05
K42	42.5	0.8	45.0	0.8	30.0	0.8	37.5	0.5	1.0	0.05

Double Metallized Polypropylene Film Capacitors

FGC Series - 630 ~ 2000VDC (DC / Pulse and High Frequency Applications)



Rating and Part Number

Vdc	Vac	Cap Value μF	Dimensions				Peak Current A	dv/dt V/us	Lead Wire mm	Part Number
			W mm	H mm	T mm	P mm				
630	400	0.0039	13.0	9.0	4.0	10.0	11.7	3000	0.6	FGC2LK392C112CL5
630	400	0.0047	13.0	9.0	4.0	10.0	14.1	3000	0.6	FGC2LK472C112CL5
630	400	0.0056	13.0	9.0	4.0	10.0	16.8	3000	0.6	FGC2LK562C112CL5
630	400	0.0068	13.0	9.0	4.0	10.0	20.4	3000	0.6	FGC2LK682C112CL5
630	400	0.0082	13.0	9.0	4.0	10.0	24.6	3000	0.6	FGC2LK822C112CL5
630	400	0.01	13.0	11.0	5.0	10.0	30.0	3000	0.6	FGC2LK103C132CL5
630	400	0.012	13.0	11.0	5.0	10.0	36.0	3000	0.6	FGC2LK123C132CL5
630	400	0.015	13.0	12.0	6.0	10.0	45.0	3000	0.6	FGC2LK153C162CL5
630	400	0.018	13.0	12.0	6.0	10.0	54.0	3000	0.6	FGC2LK183C162CL5
630	400	0.02	13.0	13.0	7.0	10.0	60.0	3000	0.6	FGC2LK203C242CL5
630	400	0.022	13.0	13.0	7.0	10.0	66.0	3000	0.6	FGC2LK223C242CL5
630	400	0.01	18.0	11.0	5.0	15.0	25.0	2500	0.8	FGC2LK103E142EL5
630	400	0.012	18.0	11.0	5.0	15.0	30.0	2500	0.8	FGC2LK123E142EL5
630	400	0.015	18.0	11.0	5.0	15.0	37.5	2500	0.8	FGC2LK153E142EL5
630	400	0.018	18.0	11.0	5.0	15.0	45.0	2500	0.8	FGC2LK183E142EL5
630	400	0.02	18.0	11.0	5.0	15.0	50.0	2500	0.8	FGC2LK203E142EL5
630	400	0.022	18.0	11.0	5.0	15.0	55.0	2500	0.8	FGC2LK223E142EL5
630	400	0.027	18.0	12.0	6.0	15.0	67.5	2500	0.8	FGC2LK273E172EL5
630	400	0.033	18.0	12.0	6.0	15.0	82.5	2500	0.8	FGC2LK333E172EL5
630	400	0.039	18.0	12.0	6.0	15.0	97.5	2500	0.8	FGC2LK393E172EL5
630	400	0.047	18.0	13.5	7.5	15.0	117.5	2500	0.8	FGC2LK473E292EL5
630	400	0.056	18.0	13.5	7.5	15.0	140.0	2500	0.8	FGC2LK563E292EL5
630	400	0.068	18.0	14.5	8.5	15.0	170.0	2500	0.8	FGC2LK683E342EL5
630	400	0.082	18.0	16.0	10.0	15.0	205.0	2500	0.8	FGC2LK823E432EL5
630	400	0.1	18.0	16.0	10.0	15.0	250.0	2500	0.8	FGC2LK104E432EL5
630	400	0.12	18.0	19.0	11.0	15.0	300.0	2500	0.8	FGC2LK124E472EL5
630	400	0.12	26.0	16.5	7.0	22.5	180.0	1500	0.8	FGC2LK124F172FL5
630	400	0.15	26.0	17.0	8.5	22.5	225.0	1500	0.8	FGC2LK154F202FL5
630	400	0.18	26.0	17.0	8.5	22.5	270.0	1500	0.8	FGC2LK184F202FL5
630	400	0.22	26.0	19.0	10.0	22.5	330.0	1500	0.8	FGC2LK224F242FL5
630	400	0.27	26.0	20.0	11.0	22.5	405.0	1500	0.8	FGC2LK274F262FL5
630	400	0.33	26.0	20.0	11.0	22.5	495.0	1500	0.8	FGC2LK334F262FL5
630	400	0.39	26.0	22.0	12.0	22.5	585.0	1500	0.8	FGC2LK394F272FL5
630	400	0.47	32.0	22.0	13.0	27.5	423.0	900	0.8	FGC2LK474G212GL5
630	400	0.56	32.0	22.0	13.0	27.5	504.0	900	0.8	FGC2LK564G212GL5
630	400	0.68	32.0	24.5	13.0	27.5	612.0	900	0.8	FGC2LK684G222GL5
630	400	0.82	32.0	28.0	14.0	27.5	738.0	900	0.8	FGC2LK824G262GL5
630	400	1.0	32.0	33.0	18.0	27.5	900.0	900	0.8	FGC2LK105G342GL5
630	400	1.2	32.0	33.0	18.0	27.5	1080.0	900	0.8	FGC2LK125G342GL5
630	400	1.5	32.0	37.0	22.0	27.5	1350.0	900	0.8	FGC2LK155G402GL5
630	400	1.8	32.0	37.0	22.0	27.5	1620.0	900	0.8	FGC2LK185G402GL5
630	400	2.2	42.5	40.0	20.0	37.5	1100.0	500	1.0	FGC2LK225K242KL5
630	400	2.7	42.5	40.0	20.0	37.5	1350.0	500	1.0	FGC2LK275K242KL5
630	400	3.3	42.5	44.0	24.0	37.5	1650.0	500	1.0	FGC2LK335K322KL5
630	400	3.9	42.5	45.0	30.0	37.5	1950.0	500	1.0	FGC2LK395K422KL5
630	400	4.7	42.5	45.0	30.0	37.5	2350.0	500	1.0	FGC2LK475K422KL5
1000	500	0.0039	13.0	9.0	4.0	10.0	11.7	3000	0.6	FGC3KK392C112CL5
1000	500	0.0047	13.0	9.0	4.0	10.0	14.1	3000	0.6	FGC3KK472C112CL5

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Vdc	Vac	Cap Value μF	Dimensions				Peak Current A	dv/dt V/us	Lead Wire mm	Part Number
			W mm	H mm	T mm	P mm				
1000	500	0.0056	13.0	9.0	4.0	10.0	16.8	3000	0.6	FGC3KK562C112CL5
1000	500	0.0068	13.0	9.0	4.0	10.0	20.4	3000	0.6	FGC3KK682C112CL5
1000	500	0.0082	13.0	9.0	4.0	10.0	24.6	3000	0.6	FGC3KK822C112CL5
1000	500	0.01	13.0	11.0	5.0	10.0	30.0	3000	0.6	FGC3KK103C132CL5
1000	500	0.012	13.0	11.0	5.0	10.0	36.0	3000	0.6	FGC3KK123C132CL5
1000	500	0.015	13.0	12.0	6.0	10.0	45.0	3000	0.6	FGC3KK153C162CL5
1000	500	0.018	13.0	12.0	6.0	10.0	54.0	3000	0.6	FGC3KK183C162CL5
1000	500	0.02	13.0	13.0	7.0	10.0	60.0	3000	0.6	FGC3KK203C242CL5
1000	500	0.022	13.0	13.0	7.0	10.0	66.0	3000	0.6	FGC3KK223C242CL5
1000	500	0.01	18.0	11.0	5.0	15.0	25.0	2500	0.8	FGC3KK103E142EL5
1000	500	0.012	18.0	11.0	5.0	15.0	30.0	2500	0.8	FGC3KK123E142EL5
1000	500	0.015	18.0	11.0	5.0	15.0	37.5	2500	0.8	FGC3KK153E142EL5
1000	500	0.018	18.0	11.0	5.0	15.0	45.0	2500	0.8	FGC3KK183E142EL5
1000	500	0.02	18.0	11.0	5.0	15.0	50.0	2500	0.8	FGC3KK203E142EL5
1000	500	0.022	18.0	11.0	5.0	15.0	55.0	2500	0.8	FGC3KK223E142EL5
1000	500	0.027	18.0	12.0	6.0	15.0	67.5	2500	0.8	FGC3KK273E172EL5
1000	500	0.033	18.0	12.0	6.0	15.0	82.5	2500	0.8	FGC3KK333E172EL5
1000	500	0.039	18.0	12.0	6.0	15.0	97.5	2500	0.8	FGC3KK393E172EL5
1000	500	0.047	18.0	13.5	7.5	15.0	117.5	2500	0.8	FGC3KK473E292EL5
1000	500	0.056	18.0	13.5	7.5	15.0	140.0	2500	0.8	FGC3KK563E292EL5
1000	500	0.068	18.0	14.5	8.5	15.0	170.0	2500	0.8	FGC3KK683E342EL5
1000	500	0.082	18.0	16.0	10.0	15.0	205.0	2500	0.8	FGC3KK823E432EL5
1000	500	0.1	18.0	16.0	10.0	15.0	250.0	2500	0.8	FGC3KK104E432EL5
1000	500	0.12	18.0	19.0	11.0	15.0	300.0	2500	0.8	FGC3KK124E472EL5
1000	500	0.12	26.0	16.5	7.0	22.5	180.0	1500	0.8	FGC3KK124F172FL5
1000	500	0.15	26.0	17.0	8.5	22.5	225.0	1500	0.8	FGC3KK154F202FL5
1000	500	0.18	26.0	17.0	8.5	22.5	270.0	1500	0.8	FGC3KK184F202FL5
1000	500	0.22	26.0	19.0	10.0	22.5	330.0	1500	0.8	FGC3KK224F242FL5
1000	500	0.27	26.0	20.0	11.0	22.5	405.0	1500	0.8	FGC3KK274F262FL5
1000	500	0.33	26.0	20.0	11.0	22.5	495.0	1500	0.8	FGC3KK334F262FL5
1000	500	0.39	26.0	22.0	12.0	22.5	585.0	1500	0.8	FGC3KK394F272FL5
1000	500	0.47	32.0	22.0	13.0	27.5	423.0	900	0.8	FGC3KK474G212GL5
1000	500	0.56	32.0	22.0	13.0	27.5	504.0	900	0.8	FGC3KK564G212GL5
1000	500	0.68	32.0	24.5	13.0	27.5	612.0	900	0.8	FGC3KK684G222GL5
1000	500	0.82	32.0	28.0	14.0	27.5	738.0	900	0.8	FGC3KK824G262GL5
1000	500	1.0	32.0	33.0	18.0	27.5	900.0	900	0.8	FGC3KK105G342GL5
1000	500	1.2	32.0	33.0	18.0	27.5	1080.0	900	0.8	FGC3KK125G342GL5
1000	500	1.5	32.0	37.0	22.0	27.5	1350.0	900	0.8	FGC3KK155G402GL5
1000	500	1.8	32.0	37.0	22.0	27.5	1620.0	900	0.8	FGC3KK185G402GL5
1000	500	2.2	42.5	40.0	20.0	37.5	1100.0	500	1.0	FGC3KK225K242KL5
1000	500	2.7	42.5	40.0	20.0	37.5	1350.0	500	1.0	FGC3KK275K242KL5
1000	500	3.3	42.5	44.0	24.0	37.5	1650.0	500	1.0	FGC3KK335K322KL5
1000	500	3.9	42.5	45.0	30.0	37.5	1950.0	500	1.0	FGC3KK395K422KL5
1000	500	4.7	42.5	45.0	30.0	37.5	2350.0	500	1.0	FGC3KK475K422KL5
1200	600	0.001	13.0	9.0	4.0	10.0	4.8	4800	0.6	FGC3BK102C112CL5
1200	600	0.0012	13.0	9.0	4.0	10.0	5.8	4800	0.6	FGC3BK122C112CL5
1200	600	0.0015	13.0	9.0	4.0	10.0	7.2	4800	0.6	FGC3BK152C112CL5
1200	600	0.0018	13.0	9.0	4.0	10.0	8.6	4800	0.6	FGC3BK182C112CL5

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Rating and Part Number

Vdc	Vac	Cap Value μF	Dimensions				Peak Current A	dv/dt V/us	Lead Wire mm	Part Number
			W mm	H mm	T mm	P mm				
1200	600	0.0022	13.0	9.0	4.0	10.0	10.6	4800	0.6	FGC3BK222C112CL5
1200	600	0.0027	13.0	9.0	4.0	10.0	13.0	4800	0.6	FGC3BK272C112CL5
1200	600	0.0033	13.0	9.0	4.0	10.0	15.8	4800	0.6	FGC3BK332C112CL5
1200	600	0.0039	13.0	11.0	5.0	10.0	18.7	4800	0.6	FGC3BK392C132CL5
1200	600	0.0047	13.0	11.0	5.0	10.0	22.6	4800	0.6	FGC3BK472C132CL5
1200	600	0.0056	13.0	11.0	5.0	10.0	26.9	4800	0.6	FGC3BK562C132CL5
1200	600	0.0068	13.0	11.0	5.0	10.0	32.6	4800	0.6	FGC3BK682C132CL5
1200	600	0.0082	13.0	11.0	5.0	10.0	39.4	4800	0.6	FGC3BK822C132CL5
1200	600	0.01	18.0	11.0	5.0	15.0	33.0	3300	0.8	FGC3BK103E142EL5
1200	600	0.012	18.0	11.0	5.0	15.0	39.6	3300	0.8	FGC3BK123E142EL5
1200	600	0.015	18.0	11.0	5.0	15.0	49.5	3300	0.8	FGC3BK153E142EL5
1200	600	0.018	18.0	11.0	5.0	15.0	59.4	3300	0.8	FGC3BK183E142EL5
1200	600	0.02	18.0	11.0	5.0	15.0	66.0	3300	0.8	FGC3BK203E142EL5
1200	600	0.022	18.0	12.0	6.0	15.0	72.6	3300	0.8	FGC3BK223E172EL5
1200	600	0.027	18.0	13.5	7.5	15.0	89.1	3300	0.8	FGC3BK273E292EL5
1200	600	0.033	18.0	13.5	7.5	15.0	108.9	3300	0.8	FGC3BK333E292EL5
1200	600	0.039	18.0	14.5	8.5	15.0	128.7	3300	0.8	FGC3BK393E342EL5
1200	600	0.047	26.0	16.5	7.0	22.5	103.4	2200	0.8	FGC3BK473F172FL5
1200	600	0.056	26.0	16.5	7.0	22.5	123.2	2200	0.8	FGC3BK563F172FL5
1200	600	0.068	26.0	17.0	8.5	22.5	149.6	2200	0.8	FGC3BK683F202FL5
1200	600	0.082	26.0	19.0	10.0	22.5	180.4	2200	0.8	FGC3BK823F242FL5
1200	600	0.1	26.0	19.0	10.0	22.5	220.0	2200	0.8	FGC3BK104F242FL5
1200	600	0.12	26.0	20.0	11.0	22.5	264.0	2200	0.8	FGC3BK124F262FL5
1200	600	0.15	26.0	22.0	12.0	22.5	330.0	2200	0.8	FGC3BK154F272FL5
1200	600	0.18	32.0	20.0	11.0	27.5	180.0	1000	0.8	FGC3BK184G182GL5
1200	600	0.22	32.0	22.0	13.0	27.5	220.0	1000	0.8	FGC3BK224G212GL5
1200	600	0.27	32.0	24.5	13.0	27.5	270.0	1000	0.8	FGC3BK274G222GL5
1200	600	0.33	32.0	28.0	14.0	27.5	330.0	1000	0.8	FGC3BK334G262GL5
1200	600	0.39	32.0	33.0	18.0	27.5	390.0	1000	0.8	FGC3BK394G342GL5
1200	600	0.47	32.0	33.0	18.0	27.5	470.0	1000	0.8	FGC3BK474G342GL5
1200	600	0.56	32.0	37.0	22.0	27.5	560.0	1000	0.8	FGC3BK564G402GL5
1200	600	0.68	32.0	37.0	22.0	27.5	680.0	1000	0.8	FGC3BK684G402GL5
1200	600	0.82	42.5	40.0	20.0	37.5	410.0	500	1.0	FGC3BK824K242KL5
1200	600	1.0	42.5	40.0	20.0	37.5	500.0	500	1.0	FGC3BK105K242KL5
1200	600	1.2	42.5	44.0	24.0	37.5	600.0	500	1.0	FGC3BK125K322KL5
1200	600	1.5	42.5	44.0	24.0	37.5	750.0	500	1.0	FGC3BK155K322KL5
1200	600	1.8	42.5	45.0	30.0	37.5	900.0	500	1.0	FGC3BK185K422KL5
1200	600	2.2	42.5	45.0	30.0	37.5	1100.0	500	1.0	FGC3BK225K422KL5
1600	650	0.0056	18.0	11.0	5.0	15.0	33.6	6000	0.8	FGC3WK562E142EL5
1600	650	0.0068	18.0	11.0	5.0	15.0	40.8	6000	0.8	FGC3WK682E142EL5
1600	650	0.0082	18.0	11.0	5.0	15.0	49.2	6000	0.8	FGC3WK822E142EL5
1600	650	0.01	18.0	11.0	5.0	15.0	60.0	6000	0.8	FGC3WKJ10E142EL5
1600	650	0.012	18.0	12.0	6.0	15.0	72.0	6000	0.8	FGC3WKJ12E172EL5
1600	650	0.015	18.0	12.0	6.0	15.0	90.0	6000	0.8	FGC3WKJ15E172EL5
1600	650	0.018	18.0	13.5	7.5	15.0	108.0	6000	0.8	FGC3WKJ18E292EL5
1600	650	0.022	18.0	13.5	7.5	15.0	132.0	6000	0.8	FGC3WK223E292EL5
1600	650	0.027	18.0	14.5	8.5	15.0	162.0	6000	0.8	FGC3WK273E342EL5
1600	650	0.033	18.0	14.5	8.5	15.0	198.0	6000	0.8	FGC3WK333E342EL5

Double Metallized Polypropylene Film Capacitors

FGC Series - 630 ~ 2000VDC (DC / Pulse and High Frequency Applications)



Rating and Part Number

Vdc	Vac	Cap Value μF	Dimensions				Peak Current A	dv/dt V/us	Lead Wire mm	Part Number
			W mm	H mm	T mm	P mm				
1600	650	0.039	26.0	16.5	7.0	22.5	117.0	3000	0.8	FGC3WK393F172FL5
1600	650	0.047	26.0	16.5	7.0	22.5	141.0	3000	0.8	FGC3WK473F172FL5
1600	650	0.056	26.0	17.0	8.5	22.5	168.0	3000	0.8	FGC3WK563F202FL5
1600	650	0.068	26.0	19.0	10.0	22.5	204.0	3000	0.8	FGC3WK683F242FL5
1600	650	0.082	26.0	19.0	10.0	22.5	246.0	3000	0.8	FGC3WK823F242FL5
1600	650	0.1	26.0	20.0	11.0	22.5	300.0	3000	0.8	FGC3WKJ10F262FL5
1600	650	0.12	32.0	22.0	13.0	27.5	240.0	2000	0.8	FGC3WK124G212GL5
1600	650	0.15	32.0	24.5	13.0	27.5	300.0	2000	0.8	FGC3WK154G222GL5
1600	650	0.18	32.0	28.0	14.0	27.5	360.0	2000	0.8	FGC3WKJ18G262GL5
1600	650	0.22	32.0	33.0	18.0	27.5	440.0	2000	0.8	FGC3WKJ22G342GL5
1600	650	0.27	32.0	33.0	18.0	27.5	540.0	2000	0.8	FGC3WKJ27G342GL5
1600	650	0.33	32.0	33.0	18.0	27.5	660.0	2000	0.8	FGC3WK334G342GL5
1600	650	0.39	32.0	37.0	22.0	27.5	780.0	2000	0.8	FGC3WKJ39G402GL5
1600	650	0.47	32.0	37.0	22.0	27.5	940.0	2000	0.8	FGC3WKJ47G402GL5
1600	650	0.47	42.5	32.0	19.0	37.5	564.0	1200	1.0	FGC3WK474K212KL5
1600	650	0.56	42.5	40.0	20.0	37.5	672.0	1200	1.0	FGC3WKJ56K242KL5
1600	650	0.68	42.5	40.0	20.0	37.5	816.0	1200	1.0	FGC3WK684K242KL5
1600	650	0.82	42.5	44.0	24.0	37.5	984.0	1200	1.0	FGC3WK824K322KL5
1600	650	1.0	42.5	44.0	24.0	37.5	1200.0	1200	1.0	FGC3WK105K322KL5
1600	650	1.2	42.5	45.0	30.0	37.5	1440.0	1200	1.0	FGC3WK125K422KL5
2000	700	0.001	18.0	11.0	5.0	15.0	9.5	9500	0.8	FGC3DK102E142EL5
2000	700	0.0012	18.0	11.0	5.0	15.0	11.4	9500	0.8	FGC3DK122E142EL5
2000	700	0.0015	18.0	11.0	5.0	15.0	14.3	9500	0.8	FGC3DK152E142EL5
2000	700	0.0018	18.0	11.0	5.0	15.0	17.1	9500	0.8	FGC3DK182E142EL5
2000	700	0.0022	18.0	11.0	5.0	15.0	20.9	9500	0.8	FGC3DK222E142EL5
2000	700	0.0027	18.0	11.0	5.0	15.0	25.7	9500	0.8	FGC3DK272E142EL5
2000	700	0.0033	18.0	11.0	5.0	15.0	31.4	9500	0.8	FGC3DK332E142EL5
2000	700	0.0039	18.0	11.0	5.0	15.0	37.1	9500	0.8	FGC3DK392E142EL5
2000	700	0.0047	18.0	11.0	5.0	15.0	44.7	9500	0.8	FGC3DK472E142EL5
2000	700	0.0056	18.0	12.0	6.0	15.0	53.2	9500	0.8	FGC3DK562E172EL5
2000	700	0.0068	18.0	12.0	6.0	15.0	64.6	9500	0.8	FGC3DK682E172EL5
2000	700	0.0082	18.0	12.0	6.0	15.0	77.9	9500	0.8	FGC3DK822E172EL5
2000	700	0.01	18.0	13.5	7.5	15.0	95.0	9500	0.8	FGC3DK103E292EL5
2000	700	0.012	18.0	14.5	8.5	15.0	114.0	9500	0.8	FGC3DK123E342EL5
2000	700	0.015	18.0	14.5	8.5	15.0	142.5	9500	0.8	FGC3DK153E342EL5
2000	700	0.018	18.0	16.0	10.0	15.0	171.0	9500	0.8	FGC3DK183E432EL5
2000	700	0.022	26.0	16.5	7.0	22.5	77.0	3500	0.8	FGC3DK223F172FL5
2000	700	0.027	26.0	16.5	7.0	22.5	94.5	3500	0.8	FGC3DK273F172FL5
2000	700	0.033	26.0	17.0	8.5	22.5	115.5	3500	0.8	FGC3DK333F202FL5
2000	700	0.039	26.0	19.0	10.0	22.5	136.5	3500	0.8	FGC3DK393F242FL5
2000	700	0.047	26.0	19.0	10.0	22.5	164.5	3500	0.8	FGC3DK473F242FL5
2000	700	0.056	26.0	20.0	11.0	22.5	196.0	3500	0.8	FGC3DK563F262FL5
2000	700	0.068	32.0	22.0	13.0	27.5	170.0	2500	0.8	FGC3DK683G212GL5
2000	700	0.082	32.0	24.5	13.0	27.5	205.0	2500	0.8	FGC3DK822G222GL5
2000	700	0.1	32.0	28.0	14.0	27.5	250.0	2500	0.8	FGC3DK104G262GL5
2000	700	0.12	32.0	33.0	18.0	27.5	300.0	2500	0.8	FGC3DK124G342GL5
2000	700	0.15	32.0	33.0	18.0	27.5	375.0	2500	0.8	FGC3DK154G342GL5
2000	700	0.18	32.0	37.0	22.0	27.5	450.0	2500	0.8	FGC3DK184G402GL5

Double Metallized Polypropylene Film Capacitors

FGC Series - 630 ~ 2000VDC (DC / Pulse and High Frequency Applications)




Rating and Part Number

Vdc	Vac	Cap Value μF	Dimensions				Peak Current A	dv/dt V/us	Lead Wire mm	Part Number
			W mm	H mm	T mm	P mm				
2000	700	0.22	32.0	37.0	22.0	27.5	550.0	2500	0.8	FGC3DK224G402GL5
2000	700	0.22	42.5	32.0	19.0	37.5	330.0	1500	1.0	FGC3DK224K212KL5
2000	700	0.27	42.5	40.0	20.0	37.5	405.0	1500	1.0	FGC3DK274K242KL5
2000	700	0.33	42.5	40.0	20.0	37.5	495.0	1500	1.0	FGC3DK334K242KL5
2000	700	0.39	42.5	44.0	24.0	37.5	585.0	1500	1.0	FGC3DK394K322KL5
2000	700	0.47	42.5	44.0	24.0	37.5	705.0	1500	1.0	FGC3DK474K322KL5
2000	700	0.56	42.5	45.0	30.0	37.5	840.0	1500	1.0	FGC3DK564K422KL5
2000	700	0.68	42.5	45.0	30.0	37.5	1020.0	1500	1.0	FGC3DK684K422KL5

General Technical Data

Applications	DC / Pulse and High Frequency Applications
Dielectric	Double Metallized Polypropylene Film
Reference Standard	IEC 60384-16
Climatic Category	40/105/56 IEC 60068-1
Operating Temperature Range	-40°C ~ +105°C (85°C ~105°C, decreasing factor 1.25% per °C for Rated Voltage)
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.

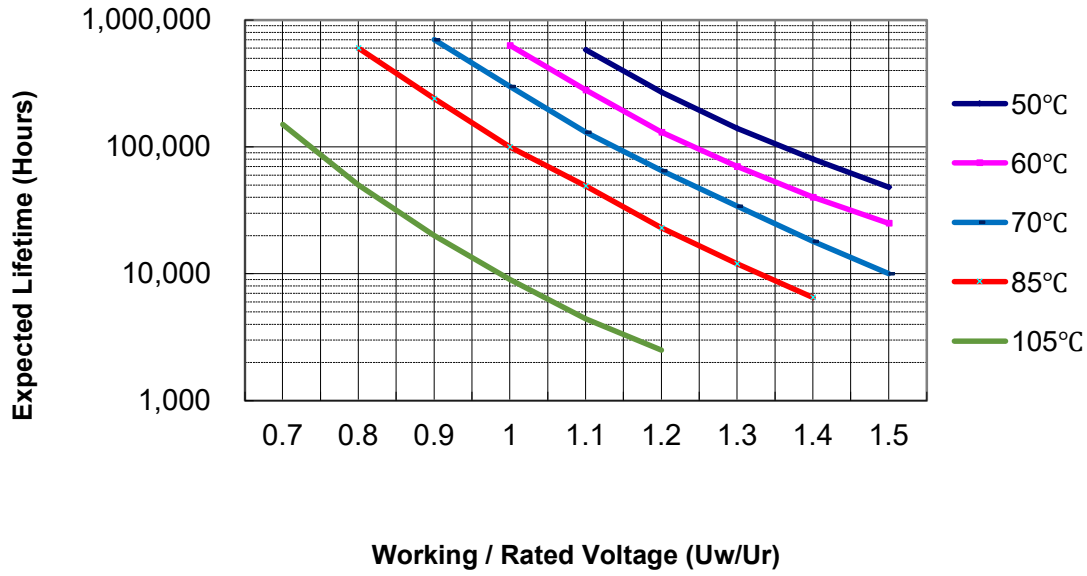
Construction

Metallized Film	OPP & Al
Metal Sprayed	Sn/Zn Alloy
Connection Electrode	Tin-plated Copper Wire
Plastic Case	Plastic Case (UL94V-0)
Filling	Epoxy Resin (UL94V-0)
Film Construction	Internal Series Construction 

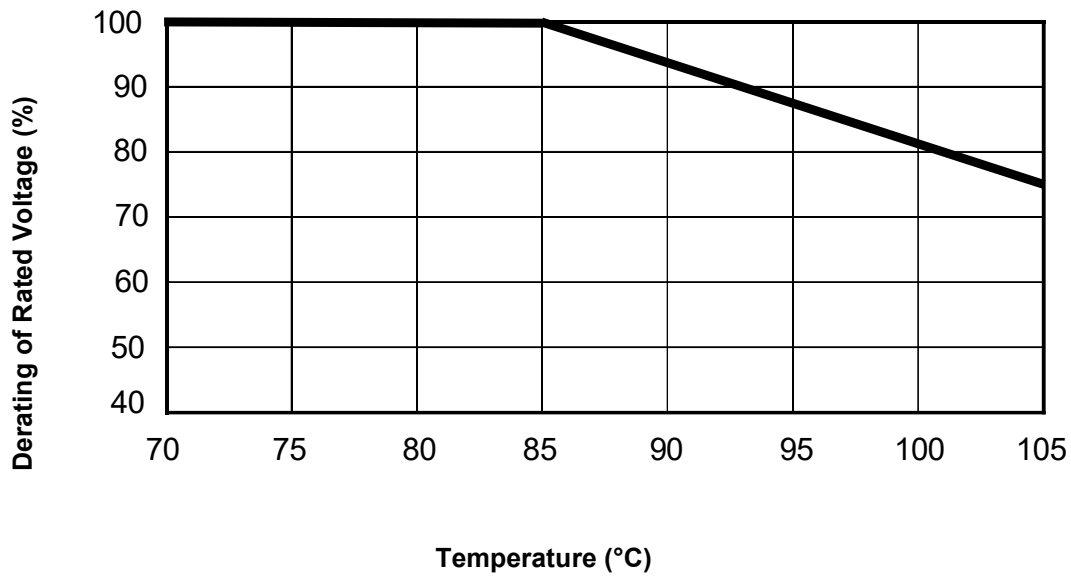
Electrical Characteristics

Voltage Range	630Vdc ~ 2000Vdc
Capacitance Range	0.001uF ~ 4.7uF
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 VDC for 10 seconds (between terminations) @ +25°C ±5°C
Voltage Between Terminals and Case U _{TC}	2000VAC, 60s (at+25+/-2°C)
Dielectric Dissipation Factor Tgδ 0	≤2×10 ⁻⁴
Dissipation factor	0.0010 (25°C, 1KHz)
Insulation Resistance	R between leads, for C ≤ 0.33 μF at 100 V; 1 min > 100 000 MΩ RC between leads, for C > 0.33 μF at 100 V; 1 min > 30 000 MΩ*μF
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	Maximum duration within one day
Apply 110% of rated voltage	30% of on-load duration
Apply 115% of rated voltage	30 mins
Apply 120% of rated voltage	5 mins
Apply 130% of rated voltage	1 min

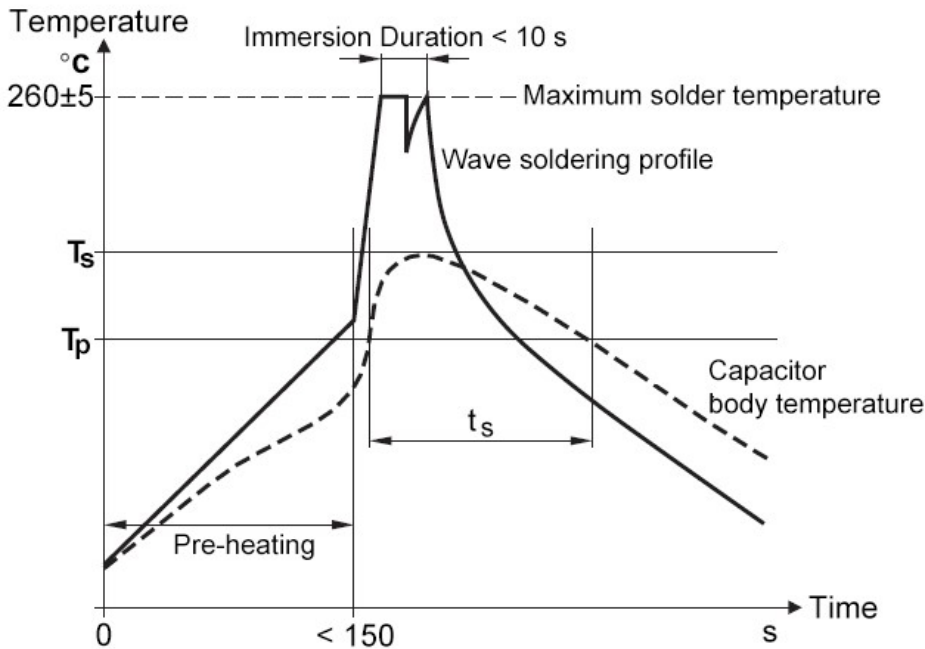
Expected Life Curve



Derating of Rated Voltage Vs Temperature



Wave Soldering Recommendations

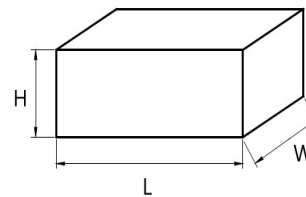


T_s : Capacitor body maximum temperature at wave soldering
 T_p : Capacitor body maximum temperature at pre-heating

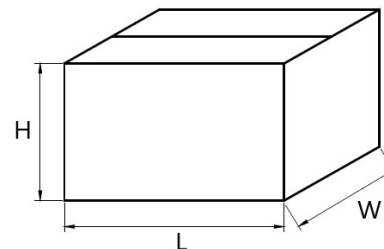
Polypropylene Capacitors	Polyester Capacitors
During pre-heating: $T_p \leq 110^\circ\text{C}$ During soldering: $T_s \leq 120^\circ\text{C}$, $t_s \leq 60$	During pre-heating: $T_p \leq 130^\circ\text{C}$ During soldering: $T_s \leq 160^\circ\text{C}$, $t_s \leq 60\text{s}$

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

P	Code	W	H	T	Long Leads	Short Leads
10	C13	13	11	5	1200	1426
	C16	13	12	6	1200	1173
15	E14	18	11	5	800	1054
	E17	18	12	6	800	867
	E29	18	13.5	7.5	800	697
	E34	18	14.5	8.5	600	612
	E43	18	16	10	600	527
	E47	18	19	11	600	476
22.5	F20	26	17	8.5	600	432
	F24	26	19	10	400	372
	F26	26	20	11	400	336
	F29	26	23	13	400	276
27.5	G18	32	20	11	200	252
	G21	32	22	13	200	207
	G22	32	24.5	13	200	207
	G26	32	28	14	200	198
	G34	32	33	18	100	153
	G37	32	31	21	100	126
	G40	32	37	22	100	126
37.5	K21	42.5	32	19	-	112
	K24	42.5	40	20	-	105
	K32	42.5	44	24	-	91
	K42	42.5	45	30	-	70

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 board by the fixed capacitor.
- Don't place the capacitor on a PC board whose holes pitch 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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