

F/PS series achieved high capacitance in 1.0mm height by using the face down structure.
Best solution for smaller and thinner product.



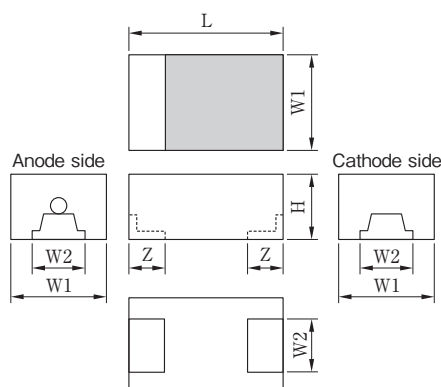
Performance Characteristics

Item		Performance			Test condition (IEC 60384-1)
Operating temperature		- 55°C ~ + 105°C			—
Rated temperature		+ 105°C			—
Rated voltage (V)		4	6.3	10	Temp. : 105°C
Surge voltage (V)		5.2	8	13	Temp. : 85°C
Nominal Capacitance	Range	22 μ F ~ 100 μ F			Measurement freq. : 120Hz Measurement volt. : 0.5Vrms+1.5V DC
	Tolerance	$\pm$ 20%			Measurement freq. : 120Hz Measurement volt. : 0.5Vrms+1.5V DC
Dissipation Factor (tan δ)		Refer to Standard Ratings			Measurement freq. : 120Hz Measurement volt. : 0.5Vrms+1.5V DC
Leakage Current (LC)		Refer to Standard Ratings			Rated voltage after 5 minuts
Equivalent Series Resistance (ESR)		Refer to Standard Ratings			Measurement freq. : 100kHz
Permissible Ripple Current		Refer to Standard Ratings			Measurement freq. : 100kHz, sine wave
		Δ C/C	tan δ	LC	
Surge voltage test		+20% ~ - 20% of the initial value	Within IL	Within IL	Temp. : 85°C, Surge voltage apply, 1000ohm series resistance, 1000cycles
Characteristics at high and low temperature	+ 25°C	—	Within IL	Within IL	—
	- 55°C	0% ~ - 20% compare with +25°C	Within IL	—	—
	+ 105°C	+50% ~ 0% compare with +25°C	Within 1.5 $\times$ IL	Within 10 $\times$ IL	—
Endurance		+20% ~ - 20% of the initial value	Within 1.5 $\times$ IL	Within IL	Temp. : 105°C, Rated voltage apply, 1000hours
Damp heat		+30% ~ - 20% of the initial value	Within 1.5 $\times$ IL	Within IL	Temp. : 60°C, Humidity: 90 ~ 95%R.H, 500hours

IL = Initial limit

Unless otherwise specified, the measurement of electrical property is performed under the room temperature (25°C)

Dimensions



(Unit : mm)

Dimension code	L	W1	W2	H	Z
Case code A3	3.2 $\pm$ 0.2	1.6 $\pm$ 0.2	1.2 $\pm$ 0.1	0.9 $\pm$ 0.1	0.8 $\pm$ 0.2



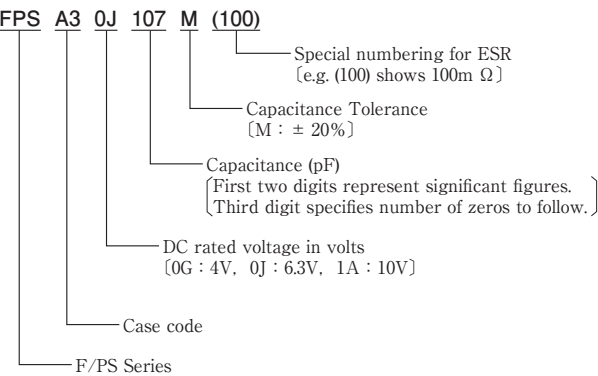
- All specifications in this catalog and production status of products are subject to change without notice. Prior to the purchase, please contact TOKIN for updated product data.
- Please request for a specification sheet for detailed product data prior to the purchase.
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Standard C-V Value Reference by Case Code

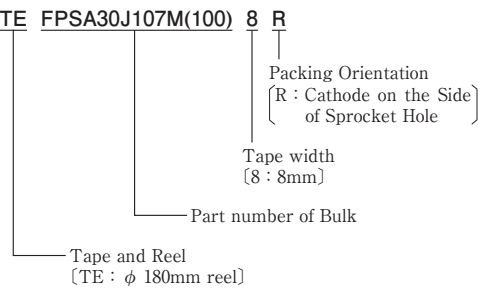
Rated voltage Capacitance	4.0	6.3	10
	0G	0J	1A
22 μ F			A3 200
33 μ F			A3 200
47 μ F		A3 200	A3 200, 150
68 μ F			
100 μ F	A3 200	A3 200, 100 70, 55	

Part Number System

[Bulk]



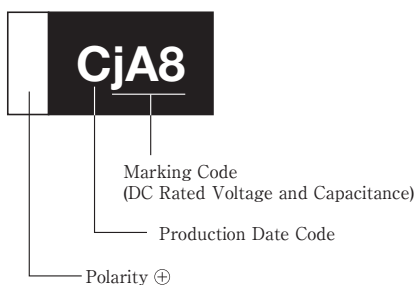
[Tape and reel]



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■ Marking

[A3 case] (e.g. 6.3V/100μF)



《DC rated voltage and capacitance》

Rated voltage		4V	6.3V	10V
Capacitance		g	j	A
22 μF	J7			AJ7
33 μF	N7			AN7
47 μF	S7		jS7	AS7
68 μF	W7			
100 μF	A8	gA8	jA8	

《Production date code》

Y \ M	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

NOTE: Production date code will resume beginning in 2021.

■ Standard Ratings

Rated Voltage (V)	Capacitance (μF)	Case Code	Part Number (Bulk)	Leakage Current (μA, +25°C) Maximum	tan δ (+25°C, 120Hz) Maximum	ESR (mΩ, +25°C, 100kHz) Maximum	Permissible Ripple Current (mA _{rms} , +25°C, 100kHz) Maximum
4	100	A3 / 3216-09	FPSA30G107M	40	0.08	200	548
6.3	47	A3 / 3216-09	FPSA30J476M	29.6	0.06	200	548
	100	A3 / 3216-09	FPSA30J107M	63	0.08	200	548
	100	A3 / 3216-09	FPSA30J107M(100)	63	0.08	100	774
	100	A3 / 3216-09	FPSA30J107M(70)	63	0.08	70	925
	100	A3 / 3216-09	FPSA30J107M(55)	63	0.08	55	1044
10	22	A3 / 3216-09	FPSA31A226M	22	0.08	200	548
	33	A3 / 3216-09	FPSA31A336M	33	0.06	200	548
	47	A3 / 3216-09	FPSA31A476M	47	0.06	200	548
	47	A3 / 3216-09	FPSA31A476M(150)	47	0.06	150	632



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