

FEATURES

- Temperature range (-40°C ~ +105°C).
- Load life 1,000 hours @ 105°C)
- RoHs COMPLIANT

PART NUMBERING

Part Number Example: 712E-016/100M4X5F							
712E	-	016	/	100	M	4X5	F
Type		Rated DC Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant

* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).

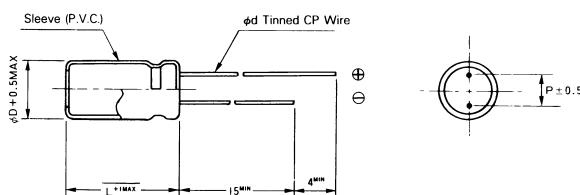
SPECIFICATIONS

Operating Temperature Range	-40°C ~ +105°C							
Rated Voltage Range	4 ~ 50vdc							
Capacitance Range	0.1 ~ 220μF							
Capacitance Tolerance	±20% (120Hz 20°C)							
Leakage Current Max	I = 0.1 CV or 3 μA whichever is greater after 2 minutes @ rated voltage							
DF (%) @ +20°C 120Hz max	Working Voltage dc	4	6.3	10	16	25	35	50
	DF (%)	35	24	20	16	14	12	10
Low Temperature Characteristics Impedance Ratio Max @ 120Hz	Working Voltage dc	4	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	6	3	3	2	2	2	2
	Z-40°C / Z+20°C	12	8	5	4	3	3	3
Load Life 1,000Hrs @ 105°C and rated voltage	Cap change	≤ ±20% of Initial measured value						
	DF	≤200% of Initial measured value						
	Leakage current	≤ Initial measured value						
Shelf Life 1,000Hrs @ 105°C	Cap change	≤ ±20% of Initial measured value						
	DF	≤200% of Initial measured value						
	Leakage curren	≤ Initial measured value						

MULTIPLIER FOR RIPPLE CURRENT VS FREQ.

FREQUENCY (Hz)	50(60)	120	1K	10K>
0.1~68μF	0.8	1	1.3	1.5
100~220μF	0.8	1	1.15	1.2

DIMENSIONS



DIMENSIONS (UNIT: mm)

Diam	3	4	5	6.3	8
F	1±.3	1.5±.5	2±.5	2.5±.5	3.5±.5
Φ	0.4	0.45			0.5

CAP. (μ F)	4 vdc Surge 5v		6.3 vdc Surge 8v		10 vdc Surge 13v		16 vdc Surge 20v		25 vdc Surge 32v		35 vdc Surge 44v		50 vdc Surge 63v	
	SIZE	I/AC	SIZE	I/AC	SIZE	I/AC	SIZE	I/AC	SIZE	I/AC	SIZE	I/AC	SIZE	I/AC
0.1													3X5	1
													4X5	1.5
0.15													3X5	1.8
													4X5	2
0.22													3X5	2.3
													4X5	2.6
0.33													3X5	3
													4X5	3.2
0.47													3X5	3.5
													4X5	3.8
0.68													3X5	4.6
													4X5	5
1													3X5	5.6
													4X5	6.2
1.5													3X5	6.5
													4X5	7
2.2											3X5	7.5	3X5	8
											4X5	7.5	4X5	11
3.3									3X5	8.5	3X5	9	4X5	14
									4X5	8.5	4X5	11		
4.7							3X5	9	3X5	10	4X5	15	5X5	19
							4X5	9	4X5	13				
6.8					3X5	11	4X5	13	4X5	15	5X5	19	5X5	22
					4X5	11							6.3X5	25
10	3X5	10	3X5	12	4X5	15	4X5	18	5X5	23	5X5	25	6.3X5	30
	4X5	10	4X5	12										
15	4X5	13	4X5	15	4X5	18	5X5	23	6.3X5	32	6.3X5	32	8X5	35
22	4X5	22	4X5	22	5X5	27	5X5	30	6.3X5	39	6.3X5	48	8X5	50
33	5X5	30	5X5	30	5X5	35	6.3X5	45	6.3X5	48	8X5	50		
47	5X5	36	5X5	36	6.3X5	48	6.3X5	50	6.3X5	50				
									8X5	55				
68	6.3X5	52	6.3X5	52	6.3X5	53	8X5	55						
100	6.3X5	60	6.3X5	60	8X5	65	8X5	68						
220	6.3X5	80	6.3X5	80	8X5	83								

I/AC (RIPPLE CURRENT) mA @ 120Hz 105°C