

FEATURES

- Temperature range (-55°C ~ +105°C).
Low Impedance, 7mm height
- Load life 2,000 hours @ 105°C)
RoHs COMPLIANT

PART NUMBERING

Part Number Example: 724X-010/470M5X7F							
724X	-	010	/	470	M	5X7	F
Type		Rated Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant

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

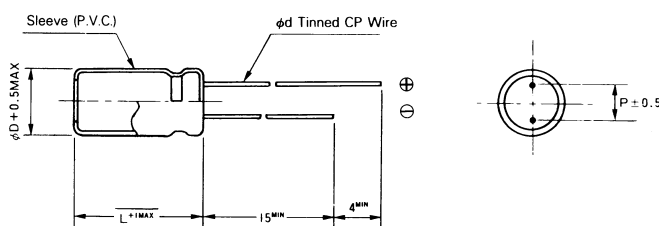
SPECIFICATIONS

Operating Temperature Range	-55°C ~ +105°C						
Rated Voltage Range	6.3 ~ 50 VDC						
Capacitance Range	1 ~ 330μF						
Capacitance Tolerance	±20% (120Hz 20°C)						
Leakage Current Max	I = 0.02 CV 5 minutes @ rated voltage						
DF (%) @ +20°C 120Hz max	Working Voltage	6.3	10	16	25	35	50
	DF (%)	18	16	14	12	12	10
Low Temperature Characteristics Impedance Ratio Max @ 120Hz	Working Voltage	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	2	2	2	2	2	2
	Z-40°C / Z+20°C	3	3	3	3	3	3
Load Life 2,000Hrs @ 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 current	≤ Initial measured value					

MULTIPLIER FOR RIPPLE CURRENT VS FREQ.

FREQUENCY (Hz)	50(60)	120	400	1K	10K	50-100K
≤10μF	0.47	0.59	0.76	0.85	0.97	1
>10 ≤100μF	0.52	0.65	0.80	0.89	0.97	1
>100μF	0.58	0.72	0.84	0.90	0.98	1

DIMENSIONS



DIMENSIONS (UNIT: mm)

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

CAP. (μ F)	6.3 vdc Surge 8v			10 vdc Surge 13v			16 vdc Surge 20v		
	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.
10							4X7	60	3.5
15							4X7	75	3
22				4X7	63	3.63	5X7	90	2
33	5X7	90	1.95	5X7	95	1.9	6.3X7	120	1.4
47	6.3X7	99	1.87	5X7	120	1.3	6.3X7	140	0.9
68	6.3X7	125	1	6.3X7	144	0.88	8X7	160	0.65
100	6.3X7	144	0.82	6.3X7	180	0.55	8X7	180	0.49
120	6.3X7	148	0.77	6.3X7	185	0.52	8X7	315	0.93
150	6.3X7	160	0.68	8X7	207	0.5	8X7	333	0.95
180	8X7	171	0.64	8X7	225	0.49	8X7	360	0.33
220	8X7	180	0.55	8X7	252	0.4	8X7	387	0.29
330	8X7	315	0.39						

RIPPLE CURRENT mA @ 100KHz 105° C
MAX IMPEDANCE Ω @ 100KHz 20° C

CAP. (μ F)	25 vdc Surge 32v			35 vdc Surge 44v			50 vdc Surge 63v		
	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.
1							4X7	60	3.5
2.2							4X7	60	3.5
3.3							4X7	60	3.5
4.7							4X7	60	3.5
6.8				4X7	63	3.63	5X7	80	2.2
10	4X7	60	3.5	5X7	99	1.87	6.3X7	135	0.92
22	5X7	99	1.87	6.3X7	140	0.9			
33	6.3X7	144	0.88	8X7	180	0.55			
47	8X7	160	0.7	8X7	220	0.5			
68	8X7	180	0.55						
100	8X7	225	0.39						
150	8X7	306	0.35						

RIPPLE CURRENT mA @ 100KHz 105° C
MAX IMPEDANCE Ω @ 100KHz 20° C