

## FEATURES

- Temperature range (-55°C ~ +105°C).  
Low Impedance, 7mm height
- Load life 1,000 hours @ 105°C)  
RoHs COMPLIANT

## PART NUMBERING

Part Number Example: 724Z-010/470M5X7F							
724Z	-	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).

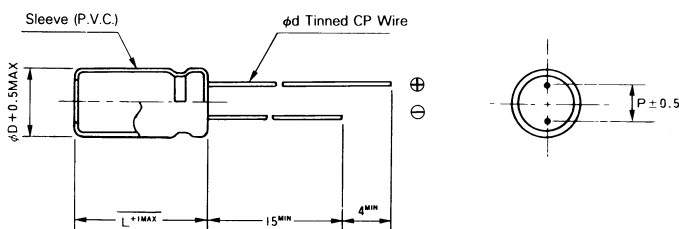
## SPECIFICATIONS

Operating Temperature Range	-55°C ~ +105°C					
Rated Voltage Range	6.3 ~ 35v VDC					
Capacitance Range	6.8 ~ 330μF					
Capacitance Tolerance	±20% (120Hz 20°C)					
Leakage Current Max	I = 0.01 CV or 3 μA whichever is greater after 2 minutes @ rated voltage					
DF (%) @ +20°C 120Hz max	Working Voltage	6.3	10	16	25	35
	DF (%)	18	16	14	12	12
Low Temperature Characteristics Impedance Ratio Max @ 120Hz	Working Voltage	6.3	10	16	25	35
	Z--25°C / Z+20°C	2	2	2	2	2
	Z-40°C / Z+20°C	3	3	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 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. ( $\mu$ F)	6.3 vdc Surge 8v			10 vdc Surge 13v			16 vdc Surge 20v		
	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.
22				4X7	70	3.3	5X7	115	1.7
33	5X7	110	1.7	5X7	110	1.7	6.3X7	160	0.8
47	5X7	110	1.7	5X7	160	0.8	6.3X7	160	0.8
68	6.3X7	160	0.8	6.3X7	160	0.8	8X7	200	0.5
100	6.3X7	160	0.8	6.3X7	200	0.5	8X7	200	0.45
120	6.3X7	165	0.7	6.3X7	205	0.48	8X7	350	0.35
150	6.3X7	178	0.6	8X7	230	0.45	8X7	370	0.32
180	8X7	190	0.58	8X7	250	0.45	8X7	400	0.3
22	8X7	200	0.5	8X7	280	0.35	8X7	430	0.26
330	8X7	350	0.35						

RIPPLE CURRENT mA @ 100KHz 105° C  
MAX IMPEDANCE  $\Omega$  @ 100KHz 20° C

CAP. ( $\mu$ F)	25 vdc Surge 32v			35 vdc Surge 44v		
	SIZE	RIPPLE	IMPED.	SIZE	RIPPLE	IMPED.
6.8				4X7	70	3.3
10	4X7	70	3.0	5X7	110	1.7
22	5X7	110	1.7	6.3X7	160	0.8
33	6.3X7	160	0.8	8X7	200	0.5
47	8X7	200	0.5	8X7	245	0.45
68	8X7	200	0.5			
100	8X7	250	0.35			
150	8X7	340	0.4			
180	8X7	450	0.25			
220	8X7	600	0.22			

RIPPLE CURRENT mA @ 100KHz 105° C  
MAX IMPEDANCE  $\Omega$  @ 100KHz 20° C