

## FEATURES

- Wide temperature range (-40°C ~ +105°C).
- Long life (2000 hours @ 105°C)
- Low profile  
RoHs COMPLIANT

## PART NUMBERING

Part Number Example: 730W-050/221M10X12F

<b>730W</b>	-	<b>050</b>	/	<b>221</b>	<b>M</b>	<b>10X12</b>	<b>F</b>
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).

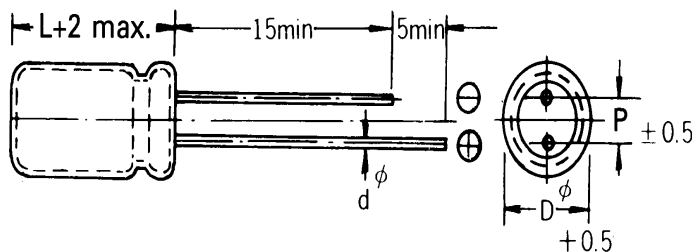
## SPECIFICATIONS

Capacitance Range	2.2~10,000 μF										1.5~220 μF					
Operating Temperature Range	-40°C ~ 105°C.										-25°C, +105°C.					
Voltage Range	6.3 ~100vdc										160~450vdc					
Capacitance Tolerance @ 25°C, 120Hz	±20%.															
Maximum Leakage Current (25°C) (after 2 minute @ rated voltage)	0.01CV or 3μA, whichever is greater										0.04CV+100μA					
DF @ 120Hz 20° C For Cap>1,000 add 2% for each 1,000 μF	Working voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	DF % max	24	22	20	16	14	12	10	10	15	15	15	15	20	20	
Low Temperature Characteristics (120Hz)	Working volts	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450	
	Z -25°C~20°C	4	3	2	2	2	2	2	2	3	3	3	6	6	6	
	Z -40°C~20°C	8	6	4	4	3	3	3	3							
Load Life (@ 105°C) 2,000 hrs	Capacitance Change	Within ±20% of initial value														
	Dissipation Factor	≤200% of initial specified value.														
	Leakage Current	Initial specified value.														
Shelf Life (105°C) After 1,000 hrs with no voltage applie	Capacitance Change	Within ±20% of initial value.														
	Dissipation Factor	≤200% of initial specified value.														
	Leakage Current	Initial specified value.														

## MULTIPLIER FOR RIPPLE CURRENT VS FREQ.

CAP( μF)/FREQ. (Hz)	50(60)	120	400	1K	10K
CAP ≤ 47 μF	0.8	1	1.20	1.30	1.50
CAP >47≤ 1,000 μF	0.8	1	1.10	1.15	1.20
CAP >1,000	0.8	1	1.05	1.10	1.15

## DIMENSIONS



Vinyl Sleeve

## DIMENSIONS (UNIT: mm)

D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	7.5		
dØ	0.5		0.6		0.8		

CAP. ( $\mu$ F)	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		63 VDC SURGE 79V	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
2.2											5X9	19	5X9	20
3.3											5X9	25	5X9	26
4.7											5X9	40	5X9	41
6.8											5X9	48	5X9	49
10											5X9	54	5X9	55
22											5X9	75	6.3X9	107
33									5X9	90	6.3X9	115	6.3X9	114
47					5X9	105	5X9	110	6.3X9	120	6.3X9	130	8X9	136
68			5X9	115	6.3X9	125	6.3X9	130	8X9	145	8X9	169	10X9	170
100	5X9	120	5X9	135	6.3X9	150	6.3X9	160	8X9	180	10X9	200	10X9	173
150	5X9	135	6.3X9	150	6.3X9	160	8X9	185	8X9	210	10X9	250	10X16	245
220	6.3X9	165	6.3X9	165	8X9	200	8X9	230	10X9	255	10x12.5	290	13X13	317
330	6.3X9	185	8X9	205	8X9	250	10X9	310	10x12.5	360	13X13	375	13X16	382
											13X16	400		
470	8X9	260	8X9	275	10X9	310	10x12.5	370	13X13	410	16X16	550	16X16	490
			10X9	280					13X16	430				
680	10X9	310	10X9	360	13X13	390	13X16	520	13X16	580	16X16	700	16X21	730
1,000	10X9	370	10x12.5	450	13X13	520	13X16	600	16X16	750	16X21	850	16X25	1,050
2,200	13X16	620	13X16	690	16X16	850	16X21	950	18X21	1,200	18X25	1,300		
							18X15	940						
3,300	16X16	860	16X16	950	16X21	1,180	18X21	1,250	18X25	1,450				
4,700	16X16	1,010	16X21	1,115	18X21	1,480	18X25	1,470						
6,800	16X16	1,210	18X21	1,350	18X25	1,600								
10,000	18X21	1,450	18X25	1,700										

RIPPLE CURRENT (mA) @ 105°C 120HZ

CAP. ( $\mu$ F)	100 VDC SURGE 125V		160 VDC SURGE 200V		200 VDC SURGE 250V		250 VDC SURGE 300V		350 VDC SURGE 400V		400 VDC SURGE 450V		450 VDC SURGE 500V	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
1.5													8X9	18
2.2	5X9	20									8X9	35	10X9	25
3.3	5X9	27							8X9	35	10X9	40	10X9	30
4.7	5X9	42	8X9	50	8X9	50	8X9	50	10X9	50	13X16	50	13X16	48
6.8	6.3X9	56	8X9	55	8X9	58	10X9	65	13X16	80	13X16	80	13X16	68
10	8X9	72	10X9	80	10X9	78	13X16	82	13X16	95	13X16	100	16X16	100
											16X16	105		
22	8X9	114	13X16	120	13X16	145	13X16	165	16X16	180	16X21	185	16X21	170
							16X16	180						
33	10X9	141	13X16	175	16X16	200	16X16	225	16X21	225	18X21	230	18X25	225
47	10X16	197	16X16	225	16X16	240	18X16	350	18X21	300	18X21	309	18X25	270
68	10X16	200	16X21	305	16X21	360	18X21	390	18X25	390				
100	13X13	247	16X21	380	18X21	410	18X25	450						
150	13X16	295	18X21	530	18X25	560								
	16X16	346												
220	16X16	373	18X25	600										
330	16X21	500												
470	18X25	745												

RIPPLE CURRENT (mA) @ 105°C 120HZ