

## FEATURES

- High temperature (-40°C ~ +125°C).
  - Long life (2000 hours @ 125°C) (  $\phi D > 10$  ).
  - Solvent resistant.
- RoHs COMPLIANT

## PART NUMBERING

Part Number Example: 725H-050/220M8X11F							
725H	-	050	/	220	M	8X11	F
Type		Rated DC Voltage		Capacitance Code ( $\mu\text{F}$ )*	Tolerance Code	Size	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).							

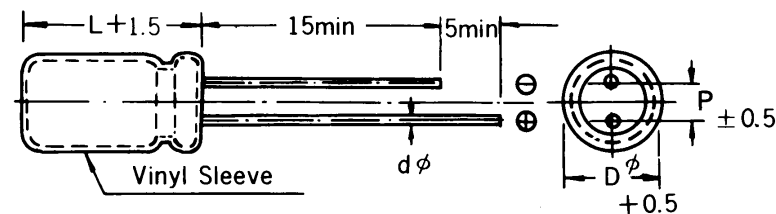
## SPECIFICATIONS

Capacitance Range	0.47~1,000 $\mu\text{F}$					1.0~100 $\mu\text{F}$							
Operating Temperature Range	-40°C ~ 125°C.					-25°C, +125°C.							
Voltage Range	10~100vdc					160~350vdc							
Capacitance Tolerance @ 20°C, 120Hz	±20%.												
Maximum Leakage Current (20°C) (after 1 minute @ rated voltage)	0.01CV or 3 $\mu\text{A}$ , whichever is greater					0.02CV max							
DF @ 120Hz 20° C	Working voltage	10	16	25	35	50	63	100	160	200	250	350	
	DF % max	12	10	8	7	6	5	6	6	7	8	10	
Low Temperature Characteristics (120Hz)	Working voltage	10	16	25	35	50	63	100	160	200	250	350	
	Z -25°C ~ +20°C	3	2	2	2	2	2	2	3	3	3	6	
	Z -40°C ~ +20°C	4	4	4	4	4	4	4	6	6	6		
Load Life (@ 125°C) D ≤8mm 1,000 hrs D ≥10mm 2,000 hrs @ RATED VOLTAGE	Capacitance Change	Within ±15% of initial value											
	Dissipation Factor	≤ 150% of initial specified value.											
	Leakage Current	Initial specified value.											
Shelf Life (125°C) After 1,000 hrs with no voltage applie	Capacitance Change	Within ±15% of initial value.											
	Dissipation Factor	≤ 150% of initial specified value.											
	Leakage Current	Initial specified value.											

## MULTIPLIER FOR RIPPLE CURRENT VS FREQ.

CAP ( $\mu\text{F}$ )/FREQ. (Hz)	50(60)	120	400	1K	10K	100K
CAP ≤ 10 $\mu\text{F}$	0.8	1	1.30	1.45	1.65	1.70
CAP >10~100 $\mu\text{F}$	0.8	1	1.23	1.36	1.48	1.53
CAP >100~1,000 $\mu\text{F}$	0.8	1	1.16	1.25	1.35	1.38
CAP >1,000	0.8	1	1.11	1.17	1.25	1.28

## DIMENSIONS



## DIMENSIONS (UNIT: mm)

D	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d $\phi$	0.5		0.6		0.8		

CAP. ( $\mu$ F)	10 vdc (Surge 13 VDC)		16 vdc (Surge 20 vdc)		25 vdc (Surge 32 vdc)		35 VDC (Surge 44 vdc)		50 vdc (Surge 63 vdc)		63 vdc (Surge 79 vdc)	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
0.47												
1												
2.2												
3.3												
4.7											6.3X11	38
10									6.3X11	48	8X11.5	55
22					6.3X11	70	6.3X11	82	8X11.5	88	8X11.5	93
33			6.3X11	91	6.3X11	100	8X11.5	108	8X11.5	122	10X12.5	132
47	5X11	92	6.3X11	110	8X11.5	130	10X12.5	158	10X12.5	164	10X16	172
100	6.3X11	145	8X11.5	206	10X12.5	250	10X16	262	10X20	277	10X20	295
220	8X11.5	330	10X12.5	400	10X16	470	10X20	540	13X20	587	13X25	595
330	10X12.5	410	10X16	525	10X20	631	13X20	718	13X25	900	16X25	1,000
470	10X16	525	10X20	720	13X20	810	13X25	900	16X25	1,000		
1,000	10X20	960	13X20	1,000	16X25	1,100	16X315	1,200				

RIPPLE CURRENT (mA) @ 125°C 120HZ

CAP. ( $\mu$ F)	100 vdc (Surge 125 vdc)		160 vdc (Surge 200 vdc)		200 vdc (Surge 250 vdc)		250 vdc (Surge 300 vdc)		350 vdc (Surge 400 vdc)	
	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE	SIZE	RIPPLE
0.47	6.3X11	14								
1	6.3X11	24	6.3X11	30	6.3X11	36	6.3X11	41	8X11.5	45
2.2	6.3X11	31	6.3X11	37	6.3X11	43	8X11.5	50	10X12.5	55
3.3	6.3X11	36	8X11.5	41	8X11.5	48	10X12.5	53	10X16	60
4.7	8X11.5	45	8X11.5	52	10X12.5	60	10X16	68	10X20	75
10	10X12.5	70	10X12.5	82	10X16	88	10X20	92	13X20	110
22	10X16	100	10X20	128	13X20	135	13X25	160	16X25	180
33	10X20	158	13X20	164	13X25	172	16X25	185	16X31.5	200
47	13X20	185	13X25	200	16X25	215	16X31.5	230	16X31.5	245
100	16X25	310	16X25	365	16X31.5	400				

RIPPLE CURRENT(mA) @ 125°C 120HZ