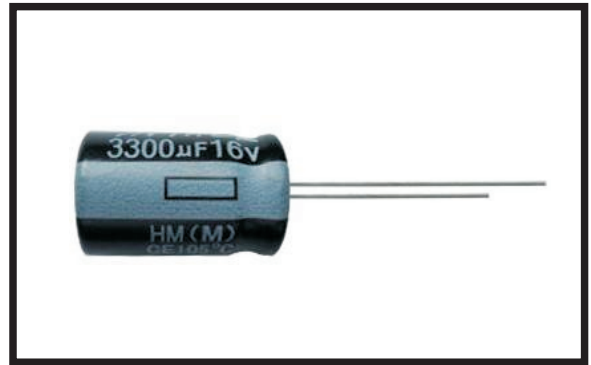


**HM 系列**  
SERIES

105°C 标准品  
105°C Standard

◆ **特 长 / FEATURES**

RoHS指令对应品。  
RoHS compliance.



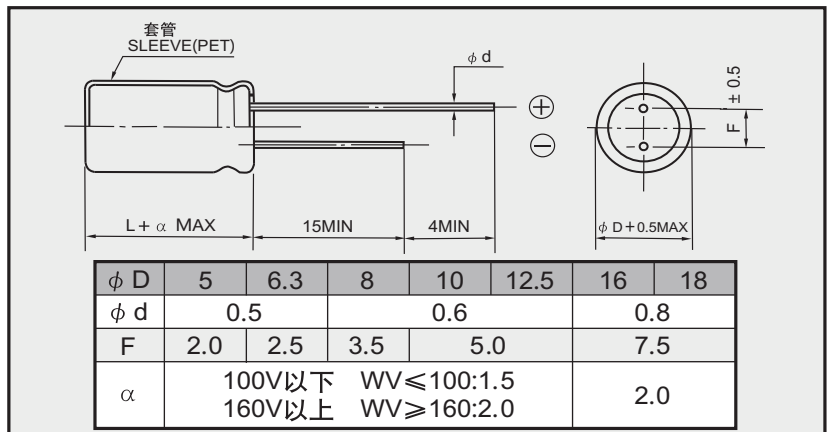
◆ **规格表 / SPECIFICATIONS**

项 目	Items	特 性			Characteristics											
工作温度范围	Category Temperature Range	-55 ~ +105°C		-40 ~ +105°C		-25 ~ +105°C										
额定电压范围	Rated Voltage Range	6.3 ~ 100V.DC		160 ~ 400V.DC		450V.DC										
静电容量允许差	Capacitance Tolerance	±20%(20°C, 120Hz)														
漏 电 流	Leakage Current(MAX)	6.3 ~ 100V.DC			160 ~ 450V.DC											
		小于I=0.01CV和3µA中的较大值 I=0.01CV or 3 µA whichever is greater. (施加额定电压2分钟后) (After 2 minutes application of rated voltage)			CV ≤ 1000		CV > 1000									
					I=0.1CV+40µA以下(1分钟值) I=0.1CV+40µA (1minute) I=0.03CV+15µA以下(5分钟值) I=0.03CV+15µA (5minutes)		I=0.04CV+100µA以下(1分钟值) I=0.04CV+100µA (1minute) I=0.02CV+25µA以下(5分钟值) I=0.02CV+25µA (5minutes)									
I=漏电流 (µA) Leakage Current	C=静电容量 (µF) Capacitance	V=额定电压 (V) Rated Voltage														
损失角正切值(tanδ)	Dissipation Factor(MAX)	额定电压 (V) Rated Voltage												(20°C, 120Hz)		
		6.3	10	16	25	35	50	63	100	160	200	250	350		400	450
		tan δ														
		0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.20	0.20	0.25	0.25	0.25	
		对于静电容量超过1000µF的产品, 其静电容量每增加1000 µF 则损失角正切值在上表值的基础上加上0.02。 When capacitance is over 1000 µF, tan δ shall be added 0.02 to the listed value with increase of every 1000 µF														
耐 久 性	Endurance	105°C 环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载右表时间后, 满足以下各项要求。 After life test with rated ripple current at conditions stated in the table below at 105°C, the capacitors shall meet the following requirements.														
		静电容量变化率 Capacitance Change		初期值的±25%以内 Within ±25% of the initial value.										铝壳尺寸 Case Size		时间 (hrs) Life Time
		损失角正切值 Dissipation Factor		规格值的200%以下 Not more than 200% of the specified value										φ D ≤ 8		1000
		漏 电 流 Leakage Current		规格值以下 Not more than the specified value.										φ D ≥ 10		2000
低 温 特 性	Low Temperature Stability (阻抗比) Impedance Ratio(MAX)	额定电压 (V) Rated Voltage												(120Hz)		
		6.3	10	16	25	35	50	63	100	160	200	250	350		400	450
		Z(-25°C)/Z(20°C)	5	4	3	2	2	2	2	2	3	3	4		6	6
		Z(-40°C)/Z(20°C)	10	8	6	4	3	3	3	3	4	48	8	10	-	

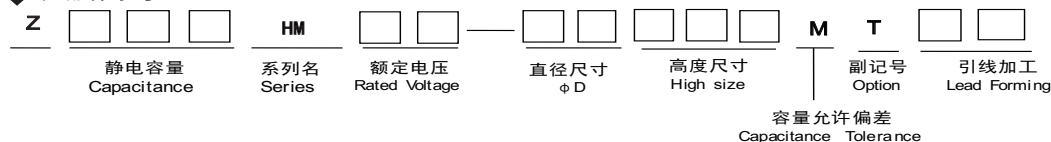
◆ **纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT**

频率 (Hz)	60 (50)	120	500	1k	10k ≤
0.47 ~ 1 µF	0.50	1.00	1.20	1.30	1.50
2.2 ~ 4.7 µF	0.65	1.00	1.20	1.30	1.50
10 ~ 47 µF	0.80	1.00	1.20	1.30	1.50
100 ~ 1000 µF	0.80	1.00	1.10	1.15	1.20
2200 ~ 33000 µF	0.80	1.00	1.05	1.10	1.15

◆ **尺寸图 / DIMENSIONS** (mm)



◆ **产品体系号 / PARTNUMBER**



◆标准品一览表 / STANDARD SIZE

Size  $\phi$  D × L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

额定电压 V.DC 静电容量 Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
1											5 × 11	13			
2.2											5 × 11	23			
3.3											5 × 11	35			
4.7											5 × 11	41			
10											5 × 11	60	5 × 11	70	
22										5 × 11	90	5 × 11	95	5 × 11	110
33								5 × 11	98	5 × 11	110	5 × 11	130	6.3 × 11	140
47					5 × 11	115	5 × 11	120	5 × 11	135	6.3 × 11	160	6.3 × 11	190	
100	5 × 11	135	5 × 11	140	5 × 11	175	5 × 11	185	6.3 × 11	215	8 × 11.5	270	8 × 11.5	290	
220	5 × 11	220	5 × 11	230	6.3 × 11	280	6.3 × 11	310	8 × 11.5	370	10 × 12.5	435	10 × 16	490	
330	6.3 × 11	280	6.3 × 11	310	6.3 × 11	360	8 × 11.5	410	10 × 12.5	500	10 × 16	590	10 × 20	710	
470	6.3 × 11	360	6.3 × 11	400	8 × 11.5	460	8 × 11.5	550	10 × 12.5	680	10 × 20	760	12.5 × 20	900	
680	6.3 × 11	460	8 × 11.5	580	8 × 11.5	620	10 × 12.5	780	10 × 16	910	12.5 × 20	1000	12.5 × 25	1200	
1000	8 × 11.5	590	8 × 11.5	660	10 × 12.5	720	10 × 16	870	10 × 20	1180	12.5 × 25	1350	16 × 25	1350	
2200	10 × 16	920	10 × 16	1090	10 × 20	1320	12.5 × 20	1500	16 × 25	1810	16 × 31.5	1980	18 × 31.5	1800	
3300	10 × 20	1200	10 × 20	1440	12.5 × 20	1600	16 × 25	2000	16 × 25	1990	18 × 31.5	2100	18 × 40	2600	
4700	12.5 × 20	1550	12.5 × 20	1680	12.5 × 25	2050	16 × 25	2120	16 × 35.5	2500	18 × 40	2800			
6800	12.5 × 25	1920	12.5 × 25	2150	16 × 25	2250	16 × 31.5	2440	18 × 35.5	2740					
10000	16 × 25	2370	16 × 25	2270	16 × 31.5	2660	18 × 35.5	2900							
15000	16 × 31.5	2550	16 × 35.5	2880	18 × 35.5	2950									
22000	16 × 35.5	2900	18 × 35.5	3100											
33000	18 × 40	3400													

额定电压 V.DC 静电容量 Cap(μF)	100 (2A)		160 (2C)		200 (2D)		250 (2E)		350 (2V)		400 (2G)		450 (2W)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.47							6.3 × 11	8	6.3 × 11	8	6.3 × 11	8	6.3 × 11	8
1	5 × 11	16					6.3 × 11	16	6.3 × 11	16	6.3 × 11	16	6.3 × 11	16
2.2	5 × 11	35					6.3 × 11	30	6.3 × 11	30	8 × 11.5	31	8 × 11.5	29
3.3	5 × 11	45			6.3 × 11	40	6.3 × 11	45	8 × 11.5	45	8 × 11.5	48	8 × 11.5	33
4.7	5 × 11	50	6.3 × 11	45	6.3 × 11	51	6.3 × 11	54	8 × 11.5	55	10 × 12.5	56	10 × 12.5	46
10	5 × 11	75	8 × 11.5	83	8 × 11.5	85	10 × 12.5	90	10 × 16	90	10 × 16	90	10 × 20	84
22	6.3 × 11	135	10 × 12.5	130	10 × 16	150	10 × 16	150	12.5 × 20	185	12.5 × 20	200	12.5 × 25	140
33	8 × 11.5	185	10 × 16	180	10 × 20	205	10 × 20	205	12.5 × 25	240	12.5 × 25	240	16 × 25	180
47	8 × 11.5	220	10 × 20	230	10 × 20	220	12.5 × 20	260	16 × 25	300	16 × 25	250	16 × 31.5	220
100	10 × 16	380	12.5 × 25	430	12.5 × 25	320	16 × 25	450	18 × 31.5	520	18 × 35.5	420	18 × 40	280
220	12.5 × 20	610	16 × 31.5	645	16 × 31.5	540	18 × 35.5	680						
330	12.5 × 25	760	16 × 35.5	700	18 × 35.5	800								
470	16 × 25	1000	18 × 40	1200										
680	16 × 31.5	1100												
1000	18 × 31.5	1200												