

JM

 Chip type, Long Life Series

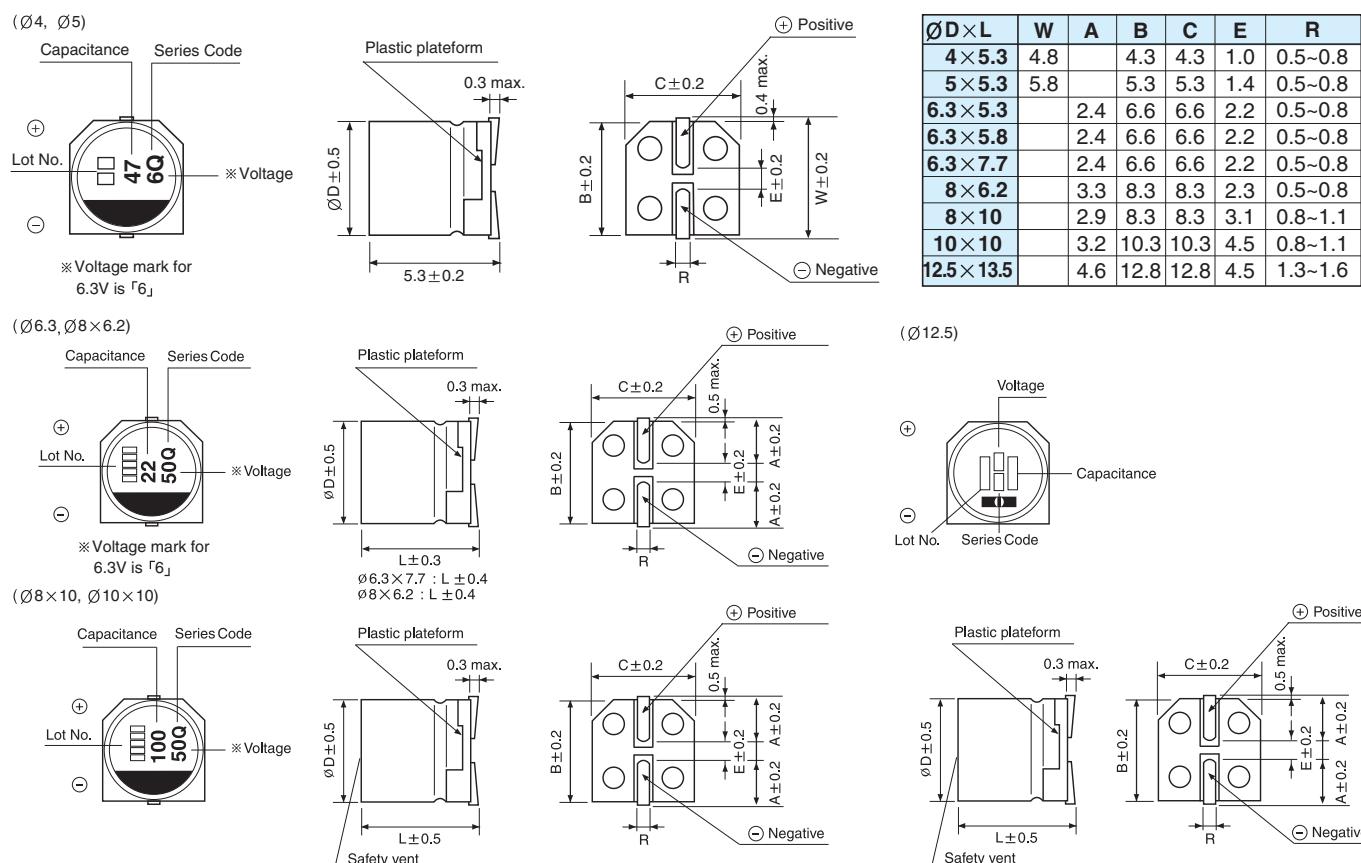
- Long Life Compared with JC series
- Designed for surface mounting on high density PC board
- Applicable to automatic insertion machine using carrier tape
- Complied to the RoHS directive

Solvent Proof
WV ≤ 100VJH → JM
Long life

Item	Characteristics																								
Operating temperature range	-40 ~ +105°C																								
Leakage current max.	WV ≤ 100 I = 0.01CV or 3μA whichever is greater (after 2 minutes) WV ≥ 160 I = 0.04CV + 100μA(after 1 minutes)																								
Capacitance tolerance	±20% at 120Hz, 20°C																								
Dissipation factor max. (at 120Hz, 20°C)	WV	6.3	10	16	25	35	50	63	100	160	200	250	400	450											
	tanδ	0.32	0.28	0.21	0.21	0.18	0.18	0.12	0.12	0.15	0.15	0.15	0.20	0.20											
Low temperature characteristics (Impedance ratio at 120Hz)	WV	6.3	10	16	25 ~ 50	63 ~ 100	100	160	160 ~ 250	200	250	400	450												
	Z-25°C/Z+20°C	3	3	3	3	3	3	3	3	3	6														
	Z-40°C/Z+20°C	8	5	4	3	4	3	4	6	6	10														
Load life (after application of the rated voltage for 3000 hours at 105°C)	Leakage current	Less than specified value																							
	Capacitance change	Within ±30% of initial value																							
	tanδ	Less than 300% of specified value																							
Shelf life (at 105°C)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4																								
Resistance to soldering heat	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them at 250°C for 10 seconds.																								
	Leakage current	Less than specified value																							
	Capacitance change	Within ±10% of initial value																							
	tanδ	Less than specified value																							

● DRAWING -Series code of JM is "Q"

Unit : mm



SURFACE MOUNT ALUMINUM ELECTROLYTIC CAPACITORS

JM series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

μF	WV	6.3	10	16	25	35					
10		4×5.3	10	4×5.3	15	4×5.3	19	5×5.3	24	6.3×5.3	26
22		4×5.3	25	5×5.3	30	5×5.3	33	6.3×5.3	38	6.3×5.8	42
33		5×5.3	35	5×5.3	38	6.3×5.3	42	6.3×5.8	48	8×6.2	76
47		5×5.3	42	6.3×5.3	52	6.3×5.8	60	8×6.2	79	8×10	124
100		6.3×5.8	60	6.3×5.8	60	8×10	148	8×10	181	10×10	310
220		8×10	161	8×10	173	10×10	330	10×10	351	10×10	480
330		8×10	288	10×10	318	10×10	441	10×10	372	12.5×13.5	500
470		10×10	340	10×10	351	10×10	489	10×10	450	12.5×13.5	600
680		10×10	408	10×10	392	12.5×13.5	500	12.5×13.5	500		
1000		10×10	495	10×10	550	12.5×13.5	600				
1500		10×10	560	12.5×13.5	650						
2200		12.5×13.5	730								

μF	WV	50	63	100			
10		6.3×5.8	30	8×6.2	32		
22		8×6.2	67	8×10	60	8×10	90
33		8×10	133	8×10	110	10×10	120
47		10×10	180	10×10	130	12.5×13.5	250
68		10×10	200	10×10	160	12.5×13.5	300
100		10×10	310	12.5×13.5	270		
220		12.5×13.5	480				

μF	WV	160	200	250	400	450				
2.2					8×10	27	10×10	29		
3.3				10×10	30	12.5×13.5	30	12.5×13.5	40	
4.7			10×10	45	12.5×13.5	65	12.5×13.5	40	12.5×13.5	57
6.8								12.5×13.5	57	
10		10×10	45	12.5×13.5	75			12.5×13.5	57	
22		12.5×13.5	85	12.5×13.5	85					
33		12.5×13.5	95							

↑ ↑
Ripple current (mA rms) at 105°C, 120Hz
Case size ØD × L (mm)

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz \leq
Coefficient	0.70	1.00	1.17	1.36	1.50