

MVT series

+105°C, Standard, Lead Free Reflow Soldering

对应无铅焊接, +105°C标准品



◆ FEATURES

- For standard.
- Life 2000 hours at +105°C.
- Available for high density mounting
- RoHS Compliant and lead-free.

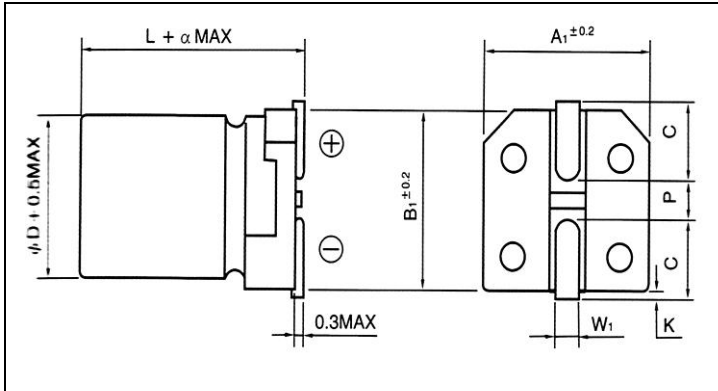
◆ SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-40~+105°C									
Rated Voltage Range	4~100V.DC									
Nominal Capacitance Range	0.1~6800μ F									
Capacitance Tolerance	±20%(120Hz,+20°C)									
Leakage Current(MAX, 20°C)	I=0.01CV or 3uA, whichever is greater. after 2 minutes with rated working voltage									
Dissipation Factor(MAX) Tanδ (20°C,120Hz)	Rated Voltage(V)		6.3	10	16	25	35	50	63	100
	Tanδ (Max)	Φ4,Φ5,Φ6.3*5.4	0.30	0.24	0.20	0.16	0.14	0.12	0.12	0.10
		Φ6.3*7.7,Φ8~Φ18	0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10
When nominal capacitance is over 1000μ F, tanδ shall be added 0.02 to the listed value with increase of every 1000μ F										
Load Life	After applying rated voltage with max ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements									
	Capacitance Change	Within ±25% of the initial value								
	Dissipation Factor	Not more than 200% of the specified value								
	Leakage Current	Not more than the specified value								
Low Temperature Stability Impedance Rate(MAX) (120Hz)	Rated Voltage(V)		6.3	10	16	25	35	50	63	100
	Z-25°C/Z+20°C		4	3	2	2	2	2	2	2
	Z-40°C/Z+20°C		8	8	4	4	3	3	5	5

◆ RIPPLE CURRENT MULTIPLIER

Frequency(Hz)		50	120	500	1K	10K~
Coefficient	0.1~1uF	0.50	1.00	1.20	1.30	1.50
	2.2~4.7uF	0.65	1.00	1.20	1.30	1.50
	10~47uF	0.80	1.00	1.20	1.30	1.50
	100~1000uF	0.80	1.00	1.10	1.15	1.20
	2200~6800uF	0.80	1.00	1.05	1.10	1.15

◆ CASE SIZE TABLE



ϕD	L	A1	B1	C	W1	P	K	α
4	5.4	4.3	4.3	1.8	0.5~0.8	1.0	0.5max	0
5	5.4	5.3	5.3	2.2	0.5~0.8	1.3	0.5max	0
6.3	5.4	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0
6.3	7.7	6.6	6.6	2.7	0.5~0.8	1.8	0.5max	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5max	0
8	10.2	8.3	8.3	2.9	0.8~1.1	3.1	0.5max	0
10	10.2	10.3	10.3	3.2	0.8~1.1	4.5	0.5max	0
10	13.5	10.3	10.3	3.2	0.8~1.1	4.5	0.7±0.4	0
12.5	13.5	13.0	13.0	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16.0	13.0	13.0	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17.0	17.0	6.0	1.0~1.6	6.8	0.7±0.4	0.5

◆ STANDARD RATINGS

Size: $\phi D \times L$ (mm), Ripple Current(mA r.m.s/105°C, 120Hz)

WV (μF)	6.3V (OJ)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)		100V (2A)	
	Size	R.C	Size	R.C	Size	R.C	Size	R.C	Size	R.C	Size	R.C	Size	R.C	Size	R.C
0.1											4x5.4	1.0				
0.22											4x5.4	2.6				
0.33											4x5.4	3.2				
0.47											4x5.4	4.0				
1											4x5.4	8.0				
2.2											4x5.4	11				
3.3											4x5.4	14				
4.7									4x5.4	15	5x5.4	19			8x10.2	55
10					4x5.4	28			5x5.4	28	6.3x5.4	35			8x10.2	65
22	4x5.4	26			5x5.4	39			6.3x5.4	55	6.3x7.7 8x6.5	67 70	8x10.2	55	10x10.2	90
33	4x5.4	29	5x5.4	43			6.3x5.4	65	6.3x7.7 8x6.5	76 84	8x10.2	140	8x10.2	115	10x10.2	135
47	5x5.4	46			6.3x5.4	70	6.3x7.7 8x6.5	79 91			8x10.2 10x10.2	167 180	8x10.2	120	12.5x13.5	160
100	6.3x5.4	71	6.3x5.4	71	6.3x7.7	111	8x10.2	180	8x10.2 10x10.2	180 305	8x10.2 10x10.2	230 315	12.5x16	225	16x16.5	285
220	6.3x7.7	121			8x10.2	185	8x10.2 10x10.2	320 355	10x10.2	450	12.5x16	380	16x16.5	385	16x21.5	440
330			8x10.2	195	8x10.2 10x10.2	290 440	10x10.2	450	12.5x16	460	16x16.5	470	16x21.5	490		
470	8x10.2	210	8x10.2 10x10.2	210 440	8x10.2 10x10.2	320 460	10x10.2	490	16x16.5	490	16x21.5	550				
1000	10x10.2 12.5x13.5	455 495	12.5x16	500	16x16.5	630	16x21.5	700	16x21.5	750						
2200	12.5x16	750	16x16.5	810	16x21.5	930										
3300	16x21.5	930	16x21.5	1000												