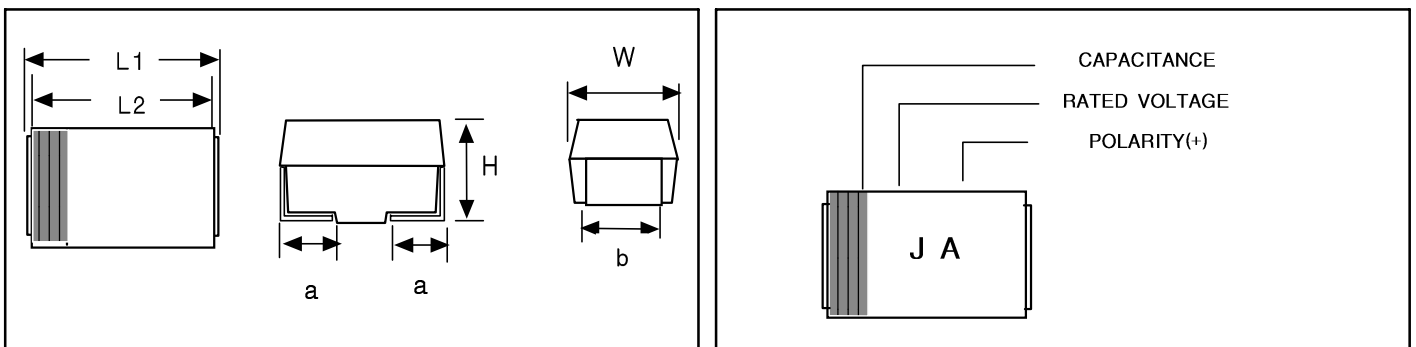


FEATURES

- Capacitance : 0.1 μ F to 22 μ F
- 100% Surge current test on each sizes
- Capacitance tolerance : $\pm 10\%$ (K), $\pm 20\%$ (M)
- Standard Range Values
- Voltage : 2.5VDC to 25VDC

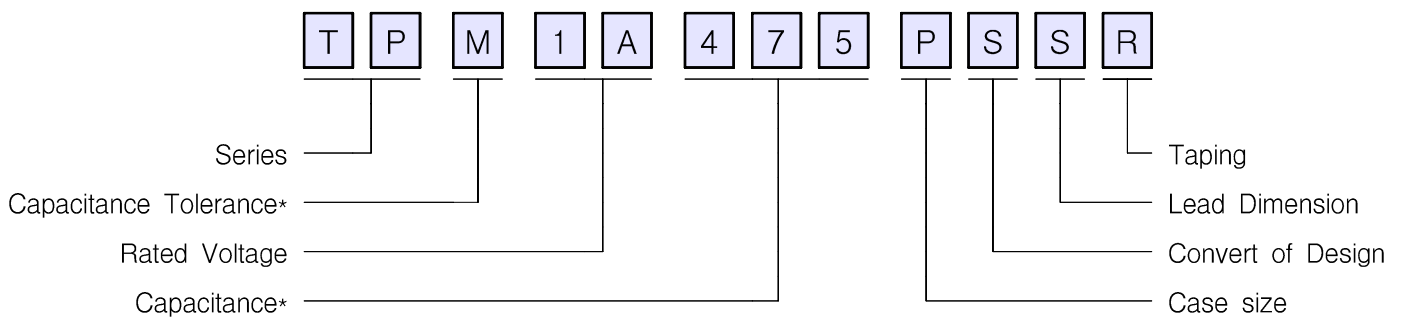
CASE DIMENSIONS AND MARKINGS



(unit : millimeters)

SIZE	CODE	L1	W	H	e	a	b
P	P	2.0 \pm 0.2	1.25 \pm 0.2	1.2 max	0.8min	0.5 \pm 0.2	0.9 \pm 0.1

ORDERING INFORMATION



Capacitance* : First two digits represent significant figures.
Third digit specifies number of zeros to follow.

Capacitance Tolerance* : M - $\pm 20\%$
K - $\pm 10\%$

SPECIFICATIONS

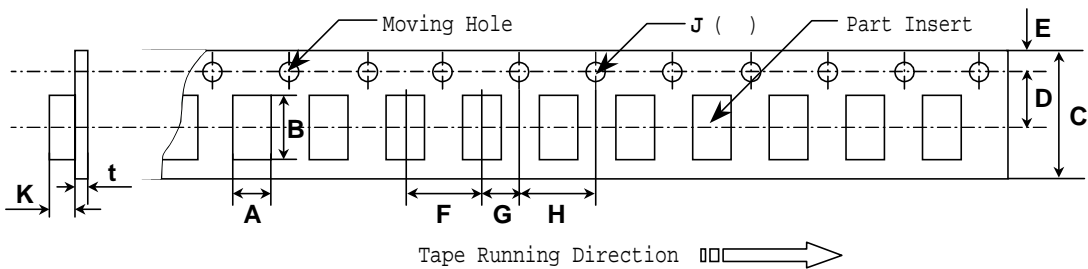
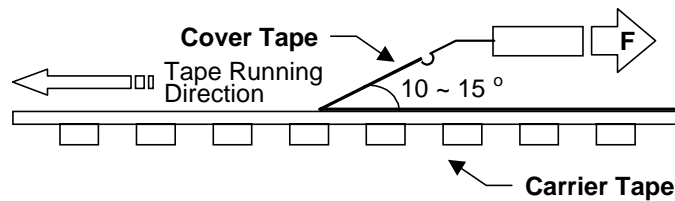
Capacitance	Range	0.1 μ F to 22 μ F							
	Tolerance	\pm 20%(M), \pm 10%(K)							
Dissipation Factor (tan δ)	C \leq 1.0 μ F	D.F \leq 6.0%							
	1.5 μ F \leq C \leq 6.8 μ F	D.F \leq 8.0%							
	C \geq 10 μ F	D.F \leq 10.0%							
Leakage Current		between 0.01CV and 0.5 μ A, whichever is higher							
Rated Voltage (V _R)		4.0	6.3	10.0	16.0	20.0	25.0	35.0	50.0
Operating Voltage (V _o)	T \leq 85 $^{\circ}$ C	4.0	6.3	10.0	16.0	20.0	25.0	35.0	50.0
	85 < T \leq 125 $^{\circ}$ C	2.5	4.0	6.3	10.0	13.0	16.0	22.0	32.0
Surge Voltage (V _s)	T \leq 85 $^{\circ}$ C	5.2	8.0	13.0	20.0	25.0	32.0	44.0	63.0
	85 < T \leq 125 $^{\circ}$ C	3.2	5.0	8.0	13.0	16.0	20.0	28.0	40.0
Operating Temperature		-55 $^{\circ}$ C to 125 $^{\circ}$ C							

CAPACITANCE AND VOLTAGE RANGE

cap(μ F) \ W.V		2.5	4	6.3	10	16	20	25
0.10	104							P
0.15	154							P
0.22	224							P
0.33	334						P	P
0.47	474					P	P	P
0.68	684				P	P	P	
1.0	105			P	P	P		
1.5	155		P	P	P	P		
2.2	225	P	P	P	P	P		
3.3	335	P	P	P	P			
4.7	475	P	P	P	P			
6.8	685	P	P	P	P			
10	106	P	P	P	P			
15	156	P	P	P				
22	226	P	P	(P)				() : Under Development

TAPE AND REEL DIMENSIONS

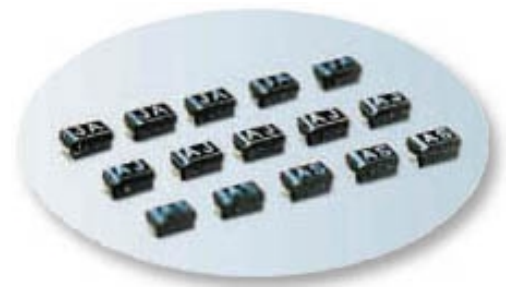
- Tape : Semitransparent emboss tape
- Cover tape : Attached for heating press polyester or adhesive cover tape
- The tension of removing cover tape
 - Heating press : F= 50±20g
 - Adhesive : F =30±15g



- TP series Carrier tape dimensions and Packing quantity

Classification	TP Series	
	Standard	Standard
A	1.50 ± 0.1	1.50 ± 0.1
B	2.2 ± 0.1	2.2 ± 0.1
C	8.0 ± 0.3	8.0 ± 0.3
D	3.5 ± 0.1	3.5 ± 0.1
E	1.75 ± 0.1	1.75 ± 0.1
F	4.0 ± 0.1	4.0 ± 0.1
G	2.0 ± 0.1	2.0 ± 0.1
H	4.0 ± 0.1	4.0 ± 0.1
J	1.5 +0.1, -0.0	1.5 +0.1, -0.0
t	0.2 ± 0.02	0.2 ± 0.02
K	1.6 MAX	1.6 MAX
Packing Quantity	3,000 pcs/reel	6,000 pcs/reel
Inner Box	5 Reels (15Kpcs)	4 Reels (24Kpcs)
Outer Box	10 Inner boxes (150Kp)	6 Inner boxes (144Kp)

Tantalum Chip Capacitor TP Series



TP SERIES RATINGS & PART NUMBER REFERENCE

Rated Voltage(V)	Cap (μF)	tan δ (%)	D.C.L (μA)	ESR (Ω , at 100KHz)	Part No.
2.5	2.2	8.0	0.50	15	TPM0E225PSSR
2.5	3.3	8.0	0.50	12	TPM0E335PSSR
2.5	4.7	8.0	0.50	9	TPM0E475PSSR
2.5	6.8	8.0	0.50	8	TPM0E685PSSR
2.5	10	10.0	0.50	6	TPM0E106PSSR
2.5	15	10.0	0.50	6	TPM0E156PSSR
2.5	22	10.0	0.50	6	TPM0E226PSSR
4	1.5	8.0	0.50	20	TPM0G155PSSR
4	2.2	8.0	0.50	15	TPM0G225PSSR
4	3.3	8.0	0.50	12	TPM0G335PSSR
4	4.7	8.0	0.50	9	TPM0G475PSSR
4	6.8	8.0	0.50	8	TPM0G685PSSR
4	10	10.0	0.50	6	TPM0G106PSSR
4	15	10.0	0.60	6	TPM0G156PSSR
4	22	10.0	0.88	6	TPM0G156PSSR
6.3	1.0	6.0	0.50	20	TPM0J105PSSR
6.3	1.5	8.0	0.50	20	TPM0J155PSSR
6.3	2.2	8.0	0.50	15	TPM0J225PSSR
6.3	3.3	8.0	0.50	12	TPM0J335PSSR
6.3	4.7	8.0	0.50	9	TPM0J475PSSR
6.3	6.8	8.0	0.50	8	TPM0J685PSSR
6.3	10	10.0	0.63	6	TPM0J106PSSR
6.3	15	10.0	0.95	6	TPM0J156PSSR
6.3	22	10.0	1.39	6	TPM0J226PSSR
10	0.68	6.0	0.50	25	TPM1A684PSSR
10	1.0	6.0	0.50	20	TPM1A105PSSR
10	1.5	8.0	0.50	20	TPM1A155PSSR
10	2.2	8.0	0.50	15	TPM1A225PSSR
10	3.3	8.0	0.50	12	TPM1A335PSSR
10	4.7	8.0	0.50	9	TPM1A475PSSR
10	6.8	8.0	0.68	9	TPM1A685PSSR
10	10	10.0	1.00	6	TPM1A106PSSR
16	0.47	6.0	0.50	25	TPM1C474PSSR
16	0.68	6.0	0.50	25	TPM1C684PSSR
16	1.0	6.0	0.50	20	TPM1C105PSSR
16	1.5	8.0	0.50	15	TPM1C155PSSR
20	0.33	6.0	0.50	30	TPM1D334PSSR
20	0.47	6.0	0.50	25	TPM1D474PSSR
20	0.68	6.0	0.50	25	TPM1D684PSSR
25	0.10	6.0	0.50	40	TPM1E104PSSR
25	0.15	6.0	0.50	40	TPM1E154PSSR
25	0.22	6.0	0.50	30	TPM1E224PSSR
25	0.33	6.0	0.50	30	TPM1E334PSSR
25	0.47	6.0	0.50	25	TPM1E474PSSR