



FEATURES:

- Conductive polymer electrode
- Lower ESR than standard Tantalum
- Excellent frequency characteristics and impedance
- Voltage range: 2.5V to 125V
- Capacitance range: 0.47uF to 470uF
- Less de-rating compared to standard Tantalum Capacitors

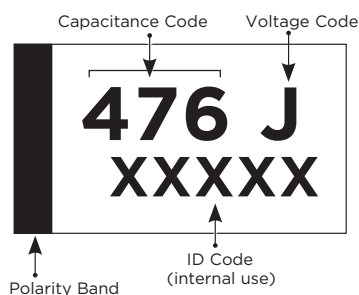


PART NUMBER STRUCTURE

TA	6R3	PCJ	157	M	D	R	0025
Tantalum Capacitor	Rated Voltage 2R5 = 2.5V 4R0 = 4.0V 6R3 = 6.3V 010 = 10V 016 = 16V 020 = 20V 025 = 25V 035 = 35V 050 = 50V 063 = 63V 075 = 75V 100 = 100V 125 = 125V	Series PCJ	Capacitance (pico - Farads) 1st two figures are significant. Third is the number of zeros to follow. 105 = 1.0µF 226 = 22µF 107 = 100µF	Tolerance M = ±20%	Case Code A B C D E Y	Packaging R = Tape and Reel	ESR (mΩ) EXAMPLE: 0025 = 0.025mΩ

Example P/N: TA6R3PCJ157MDR002

MARKING CODE



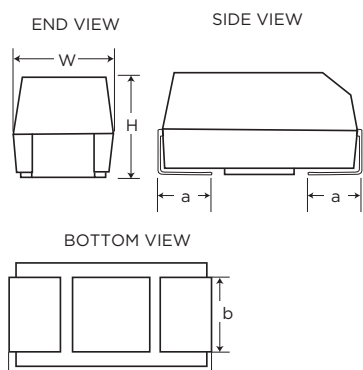
Note: For values less than 10uF, marking codes will contain the µ symbol to indicate a decimal. (Example: 4µ7 = 4.7uF)
For values 10uF and greater, marking codes will be marked with the standard EIA code.

VOLTAGE CODE	RATED VOLTAGE
e	2.5V
G	4V
J	6.3V
A	10V
C	16V
D	20V
E	25V
V	35V
T	50V
J	63V
P	75V
A	100V
B	125V

POLYMER VOLTAGE DE-RATING GUIDELINES:

VOLTAGE CODE	DE-RATING
≤10V	10%
>10V	20%

DIMENSIONS



CASE CODE	L	W	H	a	b
A	3.2 ± 0.2 (0.126 ± 0.008)	1.6 ± 0.2 (0.063 ± 0.008)	1.6 ± 0.2 (0.063 ± 0.008)	0.8 ± 0.3 (0.031 ± 0.012)	1.2 ± 0.2 (0.047 ± 0.008)
B	3.5 ± 0.2 (0.138 ± 0.008)	2.8 ± 0.2 (0.110 ± 0.008)	1.9 ± 0.2 (0.075 ± 0.008)	0.8 ± 0.3 (0.031 ± 0.012)	2.2 ± 0.2 (0.087 ± 0.008)
C	6.0 ± 0.3 (0.236 ± 0.012)	3.2 ± 0.3 (0.126 ± 0.012)	2.5 ± 0.3 (0.098 ± 0.012)	1.3 ± 0.3 (0.051 ± 0.012)	2.2 ± 0.2 (0.087 ± 0.008)
D	7.3 ± 0.3 (0.287 ± 0.012)	4.3 ± 0.3 (0.169 ± 0.012)	2.8 ± 0.3 (0.110 ± 0.012)	1.3 ± 0.3 (0.051 ± 0.012)	2.4 ± 0.2 (0.094 ± 0.008)
E	7.3 ± 0.3 (0.287 ± 0.012)	4.3 ± 0.3 (0.169 ± 0.012)	4.0 ± 0.3 (0.157 ± 0.012)	1.3 ± 0.3 (0.051 ± 0.012)	2.4 ± 0.2 (0.094 ± 0.008)
Y	7.3 ± 0.3 (0.287 ± 0.012)	4.3 ± 0.3 (0.169 ± 0.012)	2.0 MAX (0.079 MAX)	1.3 ± 0.3 (0.051 ± 0.012)	2.4 ± 0.2 (0.094 ± 0.008)

VOLTAGE RATINGS & CASE CODES

RATED VOLTAGE	2.5V	4V	6.3V	10V	16V	20V	25V	35V	50V	63V	75V	100V	125V
CAPACITANCE (µF)													
0.47										B			
0.68									B	B			
1.0									B	B,C			
1.5								B	B,C	C			
2.2								B	B,C	C			
3.3								B	B,C	C			D
4.7							B	B,C	C	C,D	D	D	
6.8					A		B	C	C,D	D,E	D		
10			A	A	A,B		B	B,C,Y	D,E	E			
15		A	A	A	B		B,Y	B,C,D,Y	E				
22		A	A	B	B	B,Y	B,C,D,Y	D					
33		A	A,B	B,C	Y	Y	D,Y	D,E					
47		A	A,B	B,C	Y	D,Y	D,E	E					
68	A	A,B	B,C	D,Y	D,Y	D,E	D,E						
100	A,B	A,B	A,B	D,Y	D,E,Y	D,E	D,E						
150	B	B,Y	B,D,Y	D,Y	D,E,Y								
220	B	B,D,Y	B,D,Y	D,Y									
330	B,Y	D,Y	D,Y	D	E								
470	D,Y	D,Y											

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
2.5	68	A	17	6	0.25	600	±20	3	TA2R5PCJ686MAR0250
2.5	100	A	25	6	0.2	700	±20	3	TA2R5PCJ107MAR0200
2.5	100	B	25	6	0.07	1300	±20	1	TA2R5PCJ107MBR0070
2.5	150	B	37.5	6	0.07	1300	±20	3	TA2R5PCJ157MBR0070
2.5	220	B	55	8	0.035	1900	±20	3	TA2R5PCJ227MBR0035
2.5	220	B	55	8	0.045	1700	±20	3	TA2R5PCJ227MBR0045
2.5	220	B	55	8	0.07	1300	±20	3	TA2R5PCJ227MBR0070
2.5	330	B	82.5	8	0.035	1900	±20	3	TA2R5PCJ337MBR0035
2.5	330	B	82.5	8	0.045	1700	±20	3	TA2R5PCJ337MBR0045
2.5	330	B	82.5	8	0.07	1300	±20	3	TA2R5PCJ337MBR0070
2.5	330	Y	82.5	6	0.025	2700	±20	2	TA2R5PCJ337MYR0025
2.5	330	Y	82.5	6	0.040	2200	±20	3	TA2R5PCJ337MYR0040
2.5	470	D	117.5	6	0.012	4300	±20	2	TA2R5PCJ477MDR0012
2.5	470	D	117.5	6	0.015	3900	±20	2	TA2R5PCJ477MDR0015
2.5	470	D	117.5	6	0.025	3000	±20	2	TA2R5PCJ477MDR0025
2.5	470	D	117.5	6	0.040	2400	±20	3	TA2R5PCJ477MDR0040
2.5	470	D	117.5	6	0.05	2100	±20	3	TA2R5PCJ477MDR0050
2.5	470	Y	117.5	6	0.015	3500	±20	5	TA2R5PCJ477MYR0015
2.5	470	Y	117.5	6	0.025	2700	±20	3	TA2R5PCJ477MYR0025
2.5	470	Y	117.5	6	0.040	2200	±20	3	TA2R5PCJ477MYR0040
2.5	470	Y	117.5	6	0.05	1900	±20	3	TA2R5PCJ477MYR0050
4	15	A	6	6	0.3	600	±20%	1	TA4R0PCJ156MAR0300
4	22	A	8.8	6	0.3	600	±20%	1	TA4R0PCJ226MAR0300
4	33	A	13.2	6	0.3	600	±20%	1	TA4R0PCJ336MAR0300

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
4	47	A	18.8	6	0.2	700	±20%	3	TA4R0PCJ476MAR0200
4	68	A	27.2	6	0.25	600	±20%	3	TA4R0PCJ686MAR0250
4	68	B	27.2	6	0.07	1300	±20%	1	TA4R0PCJ686MBR0070
4	100	A	40	6	0.2	700	±20%	3	TA4R0PCJ107MAR0200
4	100	B	40	8	0.040	1800	±20%	3	TA4R0PCJ107MBR0040
4	100	B	40	8	0.07	1300	±20%	1	TA4R0PCJ107MBR0070
4	150	B	60	6	0.07	1300	±20%	3	TA4R0PCJ157MBR0070
4	150	Y	60	6	0.025	2700	±20%	2	TA4R0PCJ157MYR0025
4	150	Y	60	6	0.045	2000	±20%	3	TA4R0PCJ157MYR0045
4	220	B	88	10	0.035	1900	±20%	3	TA4R0PCJ227MBR0035
4	220	B	88	10	0.045	1700	±20%	3	TA4R0PCJ227MBR0045
4	220	B	88	10	0.055	1500	±20%	3	TA4R0PCJ227MBR0055
4	220	B	88	10	0.06	1400	±20%	3	TA4R0PCJ227MBR0060
4	220	B	88	10	0.07	1300	±20%	3	TA4R0PCJ227MBR0070
4	220	D	88	6	0.012	4300	±20%	2	TA4R0PCJ227MDR0012
4	220	D	88	6	0.015	3900	±20%	2	TA4R0PCJ227MDR0015
4	220	D	88	6	0.025	3000	±20%	2	TA4R0PCJ227MDR0025
4	220	D	88	6	0.040	2400	±20%	2	TA4R0PCJ227MDR0040
4	220	Y	88	6	0.015	3500	±20%	2	TA4R0PCJ227MYR0015
4	220	Y	88	6	0.025	2700	±20%	2	TA4R0PCJ227MYR0025
4	220	Y	88	6	0.040	2200	±20%	3	TA4R0PCJ227MYR0040
4	330	D	132	6	0.025	3000	±20%	2	TA4R0PCJ337MDR0025
4	330	D	132	6	0.040	2400	±20%	3	TA4R0PCJ337MDR0040
4	330	D	132	6	0.05	2100	±20%	3	TA4R0PCJ337MDR0050
4	330	Y	132	6	0.025	2700	±20%	3	TA4R0PCJ337MYR0025
4	330	Y	132	6	0.040	2200	±20%	3	TA4R0PCJ337MYR0040
4	330	Y	132	6	0.05	1900	±20%	3	TA4R0PCJ337MYR0050
4	470	D	188	6	0.012	4300	±20%	2	TA4R0PCJ477MDR0012
4	470	D	188	6	0.015	3900	±20%	2	TA4R0PCJ477MDR0015
4	470	D	188	6	0.025	3000	±20%	2	TA4R0PCJ477MDR0025
4	470	D	188	6	0.040	2400	±20%	2	TA4R0PCJ477MDR0040
4	470	D	188	6	0.05	2100	±20%	2	TA4R0PCJ477MDR0050
4	470	Y	188	6	0.015	3500	±20%	5	TA4R0PCJ477MYR0015
4	470	Y	188	6	0.025	2700	±20%	3	TA4R0PCJ477MYR0025
4	470	Y	188	6	0.040	2200	±20%	3	TA4R0PCJ477MYR0040
4	470	Y	188	6	0.05	1900	±20%	3	TA4R0PCJ477MYR0050
6.3	10	A	6	6	0.3	600	±20%	1	TA6R3PCJ106MAR0300
6.3	15	A	9	6	0.3	600	±20%	1	TA6R3PCJ156MAR0300
6.3	22	A	13.2	6	0.3	600	±20%	1	TA6R3PCJ226MAR0300
6.3	33	A	19.8	6	0.2	700	±20%	3	TA6R3PCJ336MAR0200
6.3	33	B	19.8	6	0.07	1300	±20%	1	TA6R3PCJ336MBR0070
6.3	33	B	19.8	6	0.2	800	±20%	1	TA6R3PCJ336MBR0200
6.3	47	A	28.2	6	0.07	1200	±20%	3	TA6R3PCJ476MAR0070
6.3	47	A	28.2	6	0.1	1000	±20%	3	TA6R3PCJ476MAR0100
6.3	47	A	28.2	6	0.2	700	±20%	3	TA6R3PCJ476MAR0200
6.3	47	B	28.2	6	0.07	1300	±20%	1	TA6R3PCJ476MBR0070

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
6.3	68	B	40.8	8	0.055	1500	±20%	1	TA6R3PCJ686MBR0055
6.3	68	B	40.8	8	0.07	1300	±20%	1	TA6R3PCJ686MBR0070
6.3	68	C	40.8	6	0.1	1300	±20%	1	TA6R3PCJ686MCR0100
6.3	100	A	60	10	0.1	1000	±20%	3	TA6R3PCJ107MAR0100
6.3	100	A	60	10	0.15	800	±20%	3	TA6R3PCJ107MAR0150
6.3	100	B	60	10	0.045	1700	±20%	3	TA6R3PCJ107MBR0045
6.3	100	B	60	10	0.055	1500	±20%	3	TA6R3PCJ107MBR0055
6.3	100	B	60	10	0.069	1300	±20%	3	TA6R3PCJ107MBR0069
6.3	100	B	60	10	0.07	1300	±20%	3	TA6R3PCJ107MBR0070
6.3	150	B	90	10	0.025	2200	±20%	3	TA6R3PCJ157MBR0025
6.3	150	B	90	10	0.035	1900	±20%	3	TA6R3PCJ157MBR0035
6.3	150	B	90	10	0.045	1700	±20%	3	TA6R3PCJ157MBR0045
6.3	150	B	90	10	0.055	1500	±20%	3	TA6R3PCJ157MBR0055
6.3	150	B	90	10	0.069	1300	±20%	3	TA6R3PCJ157MBR0069
6.3	150	B	90	10	0.07	1300	±20%	3	TA6R3PCJ157MBR0070
6.3	150	D	90	6	0.012	4300	±20%	2	TA6R3PCJ157MDR0012
6.3	150	D	90	6	0.015	3900	±20%	2	TA6R3PCJ157MDR0015
6.3	150	D	90	6	0.025	3000	±20%	2	TA6R3PCJ157MDR0025
6.3	150	D	90	6	0.040	2400	±20%	2	TA6R3PCJ157MDR0040
6.3	150	Y	90	6	0.015	3500	±20%	2	TA6R3PCJ157MYR0015
6.3	150	Y	90	6	0.025	2700	±20%	2	TA6R3PCJ157MYR0025
6.3	150	Y	90	6	0.040	2200	±20%	3	TA6R3PCJ157MYR0040
6.3	220	B	132	10	0.07	1300	±20%	3	TA6R3PCJ227MBR0070
6.3	220	B	132	10	0.2	800	±20%	3	TA6R3PCJ227MBR0200
6.3	220	D	132	6	0.012	4300	±20%	2	TA6R3PCJ227MDR0012
6.3	220	D	132	6	0.015	3900	±20%	2	TA6R3PCJ227MDR0015
6.3	220	D	132	6	0.025	3000	±20%	2	TA6R3PCJ227MDR0025
6.3	220	D	132	6	0.035	2500	±20%	3	TA6R3PCJ227MDR0035
6.3	220	D	132	6	0.040	2400	±20%	3	TA6R3PCJ227MDR0040
6.3	220	D	132	6	0.05	2100	±20%	3	TA6R3PCJ227MDR0050
6.3	220	Y	132	6	0.015	3500	±20%	5	TA6R3PCJ227MYR0015
6.3	220	Y	132	6	0.025	2700	±20%	2	TA6R3PCJ227MYR0025
6.3	220	Y	132	6	0.035	2300	±20%	2	TA6R3PCJ227MYR0035
6.3	220	Y	132	6	0.040	2200	±20%	2	TA6R3PCJ227MYR0040
6.3	220	Y	132	6	0.05	1900	±20%	2	TA6R3PCJ227MYR0050
6.3	330	D	198	6	0.015	3900	±20%	3	TA6R3PCJ337MDR0015
6.3	330	D	198	6	0.025	3000	±20%	3	TA6R3PCJ337MDR0025
6.3	330	D	198	6	0.040	2400	±20%	2	TA6R3PCJ337MDR0040
6.3	330	D	198	6	0.05	2100	±20%	2	TA6R3PCJ337MDR0050
6.3	330	Y	198	12	0.015	3500	±20%	5	TA6R3PCJ337MYR0015
6.3	330	Y	198	12	0.025	2700	±20%	3	TA6R3PCJ337MYR0025
6.3	330	Y	198	12	0.040	2200	±20%	3	TA6R3PCJ337MYR0040
6.3	330	Y	198	12	0.05	1900	±20%	3	TA6R3PCJ337MYR0050
10	10	A	10	6	0.2	700	±20%	1	TA010PCJ106MAR0200
10	10	A	10	6	0.3	600	±20%	1	TA010PCJ106MAR0300
10	15	A	15	6	0.2	700	±20%	1	TA010PCJ156MAR0200

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
10	22	B	22	6	0.3	600	±20%	1	TA010PCJ226MBR0300
10	33	B	33	6	0.07	1300	±20%	1	TA010PCJ336MBR0070
10	33	B	33	6	0.2	800	±20%	1	TA010PCJ336MBR0200
10	33	C	33	6	0.1	1300	±20%	1	TA010PCJ336MCR0100
10	47	B	47	6	0.07	1300	±20%	3	TA010PCJ476MBR0070
10	47	C	47	6	0.1	1300	±20%	1	TA010PCJ476MCR0100
10	68	D	68	6	0.045	2200	±20%	3	TA010PCJ686MDR0045
10	68	D	68	6	0.055	2000	±20%	3	TA010PCJ686MDR0055
10	68	Y	68	6	0.045	2000	±20%	3	TA010PCJ686MYR0045
10	68	Y	68	6	0.055	1800	±20%	3	TA010PCJ686MYR0055
10	100	D	100	6	0.045	2200	±20%	3	TA010PCJ107MDR0045
10	100	D	100	6	0.08	1700	±20%	3	TA010PCJ107MDR0080
10	100	Y	100	6	0.025	2700	±20%	2	TA010PCJ107MYR0025
10	100	Y	100	6	0.045	2000	±20%	3	TA010PCJ107MYR0045
10	100	Y	100	6	0.055	1800	±20%	3	TA010PCJ107MYR0055
10	150	D	150	6	0.025	3000	±20%	3	TA010PCJ157MDR0025
10	150	D	150	6	0.040	2400	±20%	3	TA010PCJ157MDR0040
10	150	D	150	6	0.045	2200	±20%	3	TA010PCJ157MDR0045
10	150	D	150	6	0.055	2000	±20%	3	TA010PCJ157MDR0055
10	150	Y	150	6	0.025	2700	±20%	3	TA010PCJ157MYR0025
10	150	Y	150	6	0.040	2200	±20%	3	TA010PCJ157MYR0040
10	150	Y	150	6	0.045	2000	±20%	3	TA010PCJ157MYR0045
10	150	Y	150	6	0.055	1800	±20%	3	TA010PCJ157MYR0055
10	220	D	220	6	0.012	4300	±20%	3	TA010PCJ227MDR0012
10	220	D	220	6	0.015	3900	±20%	3	TA010PCJ227MDR0015
10	220	D	220	6	0.025	3000	±20%	3	TA010PCJ227MDR0025
10	220	D	220	6	0.040	2400	±20%	3	TA010PCJ227MDR0040
10	220	D	220	6	0.05	2100	±20%	3	TA010PCJ227MDR0050
10	220	Y	220	6	0.015	3500	±20%	5	TA010PCJ227MYR0015
10	220	Y	220	6	0.025	2700	±20%	3	TA010PCJ227MYR0025
10	220	Y	220	6	0.040	2200	±20%	3	TA010PCJ227MYR0040
10	220	Y	220	6	0.05	1900	±20%	3	TA010PCJ227MYR0050
10	330	D	330	6	0.025	3000	±20%	2	TA010PCJ337MDR0025
16	6.8	A	10.9	6	0.2	700	±20%	1	TA016PCJ685MAR0200
16	10	A	16	6	0.2	700	±20%	1	TA016PCJ106MAR0200
16	10	B	16	6	0.1	1100	±20%	1	TA016PCJ106MBR0100
16	10	B	16	6	0.2	800	±20%	1	TA016PCJ106MBR0200
16	15	B	24	6	0.15	900	±20%	1	TA016PCJ156MBR0150
16	22	B	35.2	6	0.15	900	±20%	1	TA016PCJ226MBR0150
16	33	Y	52.8	6	0.045	2000	±20%	2	TA016PCJ336MYR0045
16	33	Y	52.8	6	0.06	1800	±20%	2	TA016PCJ336MYR0060
16	33	Y	52.8	6	0.07	1600	±20%	2	TA016PCJ336MYR0070
16	47	Y	75.2	6	0.045	2000	±20%	2	TA016PCJ476MYR0045
16	47	Y	75.2	6	0.07	1600	±20%	2	TA016PCJ476MYR0070
16	68	D	108.8	6	0.05	2100	±20%	2	TA016PCJ686MDR0050
16	68	Y	108.8	6	0.05	1900	±20%	2	TA016PCJ686MYR0050

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
16	100	D	160	6	0.05	2100	±20%	2	TA016PCJ107MDR0050
16	100	E	160	6	0.040	2500	±20%	2	TA016PCJ107MER0040
16	100	Y	160	6	0.05	1900	±20%	2	TA016PCJ107MYR0050
16	150	D	240	6	0.040	2400	±20%	5	TA016PCJ157MDR0040
16	150	D	240	6	0.05	2100	±20%	5	TA016PCJ157MDR0050
16	150	E	240	6	0.040	2500	±20%	2	TA016PCJ157MER0040
16	150	Y	240	6	0.040	2200	±20%	5	TA016PCJ157MYR0040
16	150	Y	240	6	0.05	1900	±20%	5	TA016PCJ157MYR0050
16	330	E	528	10	0.05	2200	±20%	2	TA016PCJ337MER0050
16	330	E	528	10	0.07	1900	±20%	2	TA016PCJ337MER0070
20	22	B	44	6	0.09	1200	±20%	3	TA020PCJ226MBR0090
20	22	B	44	6	0.15	900	±20%	3	TA020PCJ226MBR0150
20	22	Y	44	6	0.07	1600	±20%	2	TA020PCJ226MYR0070
20	33	Y	66	6	0.07	1600	±20%	2	TA020PCJ336MYR0070
20	47	D	94	6	0.055	2000	±20%	2	TA020PCJ476MDR0055
20	47	Y	94	6	0.07	1600	±20%	2	TA020PCJ476MYR0070
20	68	D	136	6	0.055	2000	±20%	3	TA020PCJ686MDR0055
20	68	E	136	6	0.045	2400	±20%	2	TA020PCJ686MER0045
20	100	D	200	6	0.055	2000	±20%	3	TA020PCJ107MDR0055
20	100	E	200	6	0.045	2400	±20%	3	TA020PCJ107MER0045
25	4.7	B	11.8	6	0.1	1100	±20%	3	TA025PCJ475MBR0100
25	4.7	B	11.8	6	0.15	900	±20%	3	TA025PCJ475MBR0150
25	6.8	B	17	6	0.09	1200	±20%	2	TA025PCJ685MBR0090
25	6.8	B	17	6	0.15	900	±20%	3	TA025PCJ685MBR0150
25	10	B	25	6	0.09	1200	±20%	2	TA025PCJ106MBR0090
25	10	B	25	6	0.1	1100	±20%	2	TA025PCJ106MBR0100
25	10	B	25	6	0.15	900	±20%	2	TA025PCJ106MBR0150
25	15	B	37.5	6	0.1	1100	±20%	2	TA025PCJ156MBR0100
25	15	B	37.5	6	0.15	900	±20%	2	TA025PCJ156MBR0150
25	15	Y	37.5	6	0.09	1400	±20%	2	TA025PCJ156MYR0090
25	22	B	55	6	0.1	1100	±20%	3	TA025PCJ226MBR0100
25	22	B	55	6	0.15	900	±20%	3	TA025PCJ226MBR0150
25	22	C	55	6	0.1	1300	±20%	3	TA025PCJ226MCR0100
25	22	D	55	6	0.06	1900	±20%	2	TA025PCJ226MDR0060
25	22	D	55	6	0.1	1500	±20%	2	TA025PCJ226MDR0100
25	22	Y	55	6	0.07	1600	±20%	3	TA025PCJ226MYR0070
25	33	D	82.5	6	0.06	1900	±20%	2	TA025PCJ336MDR0060
25	33	D	82.5	6	0.1	1500	±20%	2	TA025PCJ336MDR0100
25	33	Y	82.5	6	0.06	1800	±20%	2	TA025PCJ336MYR0060
25	33	Y	82.5	6	0.07	1600	±20%	2	TA025PCJ336MYR0070
25	33	Y	82.5	6	0.1	1400	±20%	2	TA025PCJ336MYR0100
25	47	D	117.5	6	0.06	1900	±20%	3	TA025PCJ476MDR0060
25	47	D	117.5	6	0.1	1500	±20%	3	TA025PCJ476MDR0100
25	47	E	117.5	6	0.05	2200	±20%	3	TA025PCJ476MER0050
25	68	D	170	6	0.07	1800	±20%	2	TA025PCJ686MDR0070
25	68	E	170	6	0.05	2200	±20%	3	TA025PCJ686MER0050

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
25	100	D	250	6	0.055	2000	±20%	2	TA025PCJ107MDR0055
25	100	D	250	6	0.07	1800	±20%	2	TA025PCJ107MDR0070
25	100	E	250	6	0.08	1800	±20%	2	TA025PCJ107MERO080
35	1.5	B	5.3	6	0.2	800	±20%	2	TA035PCJ155MBR0200
35	2.2	B	7.7	6	0.2	800	±20%	3	TA035PCJ225MBR0200
35	3.3	B	11.6	6	0.2	800	±20%	3	TA035PCJ335MBR0200
35	4.7	B	16.5	6	0.2	800	±20%	3	TA035PCJ475MBR0200
35	4.7	C	16.5	6	0.2	900	±20%	3	TA035PCJ475MCR0200
35	6.8	C	23.8	6	0.2	900	±20%	3	TA035PCJ685MCR0200
35	10	B	35	6	0.2	800	±20%	2	TA035PCJ106MBR0200
35	10	C	35	6	0.2	00	±20%	3	TA035PCJ106MCR0200
35	10	Y	35	6	0.07	1600	±20% 2		TA035PCJ106MYR0070
35	15	B	52.5	10	0.2	800	±20%	2	TA035PCJ156MBR0200
35	15	C	52.5	6	0.2	900	±20%	3	TA035PCJ156MCR0200
35	15	D	52.5	6	0.07	1800	±20%	3	TA035PCJ156MDR0070
35	15	D	52.5	6	0.1	1500	±20%	3	TA035PCJ156MDR0100
35	15	Y	52.5	6	0.07	1600	±20%	3	TA035PCJ156MYR0070
35	15	Y	52.5	6	0.1	1400	±20%	3	TA035PCJ156MYR0100
35	22	D	77	6	0.07	1800	±20%	2	TA035PCJ226MDR0070
35	22	D	77	6	0.1	1500	±20%	2	TA035PCJ226MDR0100
35	33	D	115.5	6	0.07	1800	±20%	2	TA035PCJ336MDR0070
35	33	D	115.5	6	0.1	1500	±20%	2	TA035PCJ336MDR0100
35	33	E	115.5	6	0.055	2100	±20%	3	TA035PCJ336MERO055
35	33	E	115.5	6	0.07	1900	±20%	3	TA035PCJ336MERO070
35	47	E	164.5	6	0.055	2100	±20%	2	TA035PCJ476MERO055
50	0.68	B	3.4	6	0.4	600	±20%	3	TA050PCJ684MBR0400
50	1	B	5	6	0.3	600	±20%	3	TA050PCJ105MBR0300
50	1.5	B	7.5	6	0.3	600	±20%	3	TA050PCJ155MBR0300
50	1.5	C	7.5	6	0.3	800	±20%	3	TA050PCJ155MCR0300
50	2.2	C	11	6	0.3	800	±20%	3	TA050PCJ225MCR0300
50	3.3	C	16.5	8	0.2	900	±20%	3	TA050PCJ335MCR0200
50	4.7	C	23.5	8	0.2	900	±20%	3	TA050PCJ475MCR0200
50	6.8	C	34	8	0.2	900	±20%	3	TA050PCJ685MCR0200
50	6.8	D	34	10	0.120	1400	±20%	3	TA050PCJ685MDR0120
50	10	D	50	10	0.120	1400	±20%	3	TA050PCJ106MDR0120
50	10	E	50	6	0.07	1900	±20%	3	TA050PCJ106MERO070
50	10	E	50	6	0.1	1600	±20%	3	TA050PCJ106MERO100
50	15	E	75	6	0.07	1900	±20%	3	TA050PCJ156MERO070
50	15	E	75	6	0.1	1600	±20%	3	TA050PCJ156MERO100
63	0.47	B	3	8	0.4	600	±20%	3	TA063PCJ474MBR0400
63	0.68	B	4.3	8	0.3	600	±20%	3	TA063PCJ684MBR0300
63	1	B	6.3	8	0.3	600	±20%	3	TA063PCJ105MBR0300
63	1	C	6.3	6	0.3	800	±20%	3	TA063PCJ105MCR0300
63	1.5	C	9.5	6	0.3	800	±20%	3	TA063PCJ155MCR0300
63	2.2	C	13.9	6	0.2	900	±20%	3	TA063PCJ225MCR0200
63	3.3	C	20.8	6	0.2	900	±20%	3	TA063PCJ335MCR0200

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (μF)	CASE CODE	MAX. DCL @ +25°C (μA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (Ω)	MAX. RIPPLE CURRENT @45°C (mA)	TOLERANCE (%)	PRODUCT CATEGORY	VENKEL PART NUMBER
63	4.7	C	29.6	6	0.2	900	±20%	3	TA063PCJ475MCR0200
63	4.7	D	29.6	6	0.120	1400	±20%	3	TA063PCJ475MDR0120
63	6.8	D	42.8	6	0.120	1400	±20%	3	TA063PCJ685MDR0120
63	6.8	E	42.8	6	0.1	1600	±20%	3	TA063PCJ685MER0100
63	6.8	E	42.8	6	0.15	1300	±20%	3	TA063PCJ685MER0150
63	10	E	63	6	0.1	1600	±20%	3	TA063PCJ106MER0100
63	10	E	63	6	0.15	1300	±20%	3	TA063PCJ106MER0150
75	4.7	D	35.3	6	0.15	1200	±20%	3	TA075PCJ475MDR0150
75	6.8	D	51	6	0.120	1400	±20%	3	TA075PCJ685MDR0120
100	4.7	D	47	8	0.25	900	±20%	4	TA100PCJ475MDR0250
125	3.3	D	41.2	8	0.25	900	±20%	4	TA125PCJ335MDR0250

ENVIRONMENT TEST CRITERIA - PRODUCT CATEGORY 1

OPERATING TEMPERATURE RANGE				-55°C TO +105°C							
TEST	CONDITION			CHARACTERISTICS							
Endurance	Determine after application of rated voltage for 2000 +48/-0 hours at 85±2°C and then leaving 1-2 hours at room temperature. Also determine after application of 125°C temperature, 2/3 rated voltage for 2000 +48/-0 hours and then leaving 1-2 hours at room temperature. Power supply impedance to be ≤ 0.1Ω/V			Visual Examination	no visible damage						
				DCL	1.25 x initial limit						
				ΔC/C	within ±20% of initial value						
				DF	1.5 x initial limit						
				ESR	2 x initial limit						
Storage Life	125°C, 0V, 2000h			Visual Examination	no visible damage						
				DCL	2 x initial limit						
				ΔC/C	within ±20% of initial value						
				DF	1.5 x initial limit						
				ESR	2 x initial limit						
Humidity	Determine after storage without applied voltage at 65±2°C and 95±2% relative humidity for 500hrs and then recovery 1-2 hours at room temperature.			Visual Examination	no visible damage						
				DCL	3 x initial limit						
				ΔC/C	within +30/-20% of initial value						
				DF	1.5 x initial limit						
				ESR	2 x initial limit						
Temperature Stability	STEP	TEMPERATURE °C	DURATION (min.)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C	
	1	+20±2	15	DCL	IL*	N/A	IL*	10 x IL*	12.5 x IL*	IL*	
	2	-55+0/-3	15								
	3	+20±2	15	ΔC/C	N/A	+0/-20%	+5%	+20/-0%	+30/-0%	+5%	
	4	+85+3/-0	15								
	5	+125+3/-0	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*	
6	+20±2	15									
Surge Voltage	Test temperature: 125°C±3/0°C Surge voltage: 1.3x 2/3x rated voltage at 125°C Charge/Discharge resistance: 1000Ω±100Ω Number of cycles: 1000x Cycle duration: 6 min; 30 sec charge, 5 min 30 sec discharge			Visual Examination	no visible damage						
				DCL	initial limit						
				ΔC/C	within +10/-20% of initial value for Vr ≤ 10V within +20/-30% of initial value for Vr ≥ 16V						
				DF	1.25 x initial limit						

*Initial Limit

Initial measurement max. 1hr after the removal from dry pack or after pretreatment at 85°C for 24 hours.

Polymer voltage de-rating guidelines:

10% (or 90% of Vr) for Vr < 10V

20% (or 80% of Vr) for Vr > 10V

MSL Level: 3

ENVIRONMENT TEST CRITERIA - PRODUCT CATEGORY 2, 3 & 4

OPERATING TEMPERATURE RANGE				-55°C TO +105°C								
TEST	CONDITION			CHARACTERISTICS								
Endurance	Determine after application of rated voltage for 2000 +48/-0 hours at 85±2°C and then leaving 1-2 hours at room temperature. Also determine after application of 105°C temperature. For CATEGORY 2: Rated voltage for 2000 +48/-0 hours. For CATEGORY 3 & 4: 0.8x rated voltage for 2000 +48/-0 hours And then leaving 1-2 hours at room temperature. Power supply impedance to be ≤ 0.1Ω/V.			Visual Examination	no visible damage							
				DCL	1.25 x initial limit							
				ΔC/C	within ±20% of initial value							
				DF	1.5 x initial limit							
				ESR	2 x initial limit							
Storage Life	105°C, 0V, 2000h			Visual Examination	no visible damage							
				DCL (VR ≤ 75V)	2 x initial limit							
				DCL (VR > 75V)	within ±20% of initial value							
				ΔC/C	within ±20% of initial value							
				DF	1.5 x initial limit							
				ESR	2 x initial limit							
Humidity	Determine after storage without applied voltage at 65±2°C and 95±2% relative humidity for 500hrs and then recovery 1-2 hours at room temperature.			Visual Examination	no visible damage							
				DCL	3 x initial limit							
				ΔC/C	within +30/-20% of initial value							
				DF	1.5 x initial limit							
				ESR	2 x initial limit							
Temperature Stability	STEP	TEMPERATURE °C	DURATION (min.)		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C		
	1	+20+2	15	DCL	IL*	N/A	IL*	10 x IL*	12.5 x IL*	IL*		
	2	-55+0/-3	15		ΔC/C	N/A	+0/-20%	+5%	+20/-0%	+30/-0%	+5%	
	3	+20±2	15	DF		IL*	1.5 x IL*	IL*	1.5 x IL*	2 x IL*	IL*	
	4	+85+3/-0	15			ESR	2 x initial limit					
	5	+105+3/-0	15									
6	+20±2	15										
Surge Voltage	Test temperature: 105°C+3/0°C For CATEGORY 2: Surge voltage: 1.3x rated voltage at 105°C For CATEGORY 3 & 4: Surge voltage: 1.3x 0.8x rated voltage at 105°C Charge/Discharge resistance: 1000±100Ω Number of cycles: 1000x Cycle duration: 6 min; 30 sec charge, 5 min 30 sec discharge			Visual Examination	no visible damage							
				DCL	initial limit							
				ΔC/C	within +10/-20% of initial value for Vr ≤ 10V within +20/-30% of initial value for Vr ≥ 16V							
				DF	1.25 x initial limit							

*Initial Limit

Initial measurement max. 1hr after the removal from dry pack or after pretreatment at 85°C for 24 hours.

ENVIRONMENT TEST CRITERIA - PRODUCT CATEGORY 5

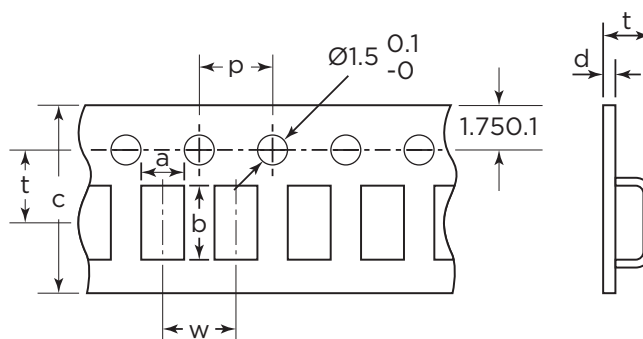
OPERATING TEMPERATURE RANGE				-55°C TO +105°C						
TEST	CONDITION			CHARACTERISTICS						
Endurance	Determine after application of rated voltage for 2000 +48/-0 hours at 85±2°C and then leaving 1-2 hours at room temperature. Power supply impedance to be ≤ 0.1Ω/V.			Visual Examination	no visible damage					
				DCL	1.25 x initial limit					
				ΔC/C	within ±20% of initial value					
				DF	1.5 x initial limit					
				ESR	2 x initial limit					
Storage Life	85°C, 0V, 2000h			Visual Examination	no visible damage					
				DCL	2 x initial limit					
				ΔC/C	within ±20% of initial value					
				DF	1.5 x initial limit					
				ESR	2 x initial limit					
Humidity	Determine after storage without applied voltage at 65±2°C and 95±2% relative humidity for 500hrs and then recovery 1-2 hours at room temperature.			Visual Examination	no visible damage					
				DCL	3 x initial limit					
				ΔC/C	within +40/-20% of initial value					
				DF	1.5 x initial limit					
				ESR	2 x initial limit					
Temperature Stability	STEP	TEMPERATURE °C	DURATION (min.)		+20°C	-55°C	+20°C	+85°C	+20°C	
	1	+20±2	15	DCL	IL*	N/A	IL*	10 x IL*	IL*	
	2	-55+0/-3	15		ΔC/C	N/A	+0/-20%	+5%	+20/-0%	+5%
	3	+20±2	15	DF	IL*	1.5 x IL*	IL*	1.5 x IL*	IL*	
	4	+85+3/-0	15							
	5	+20±2	15							
Surge Voltage	Test temperature: 125°C±3/0°C Surge voltage: 1.3x 2/3x rated voltage at 125°C Charge/Discharge resistance: 1000Ω±100Ω Number of cycles: 1000x Cycle duration: 6 min; 30 sec charge, 5 min 30 sec discharge			Visual Examination	no visible damage					
				DCL	initial limit					
				ΔC/C	within +10/-20% of initial value for Vr ≤ 10V within +20/-30% of initial value for Vr ≥ 16V					
				DF	1.25 x initial limit					

*Initial Limit

Initial measurement max. 1hr after the removal from dry pack or after pretreatment at 85°C for 24 hours.

TAPE & REEL SPECIFICATIONS

CARRIER TAPE



TAPE DIMENSIONS

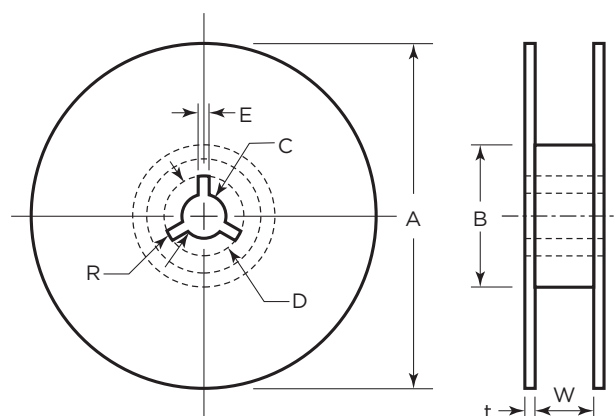
Unit: mm

CASE SIZE	a	b	c	t	p	w	d
A	1.9±0.1	3.9±0.1	8.0±0.1	1.9±0.1	4.0±0.1	4.0±0.1	0.2±0.1
B	3.1±0.1	3.9±0.1	8.0±0.1	2.3±0.1	4.0±0.1	4.0±0.1	0.2±0.1
C	3.9±0.1	6.3±0.1	12.0±0.1	2.9±0.1	4.0±0.1	4.0±0.1	0.3±0.1
D	4.6±0.1	7.7±0.1	12.0±0.1	3.3±0.1	4.0±0.1	4.0±0.1	0.3±0.1
E	4.6±0.1	7.7±0.1	12.0±0.1	4.5±0.1	4.0±0.1	4.0±0.1	0.3±0.1
Y	4.6±0.1	7.7±0.1	12.0±0.1	2.15±0.1	4.0±0.1	4.0±0.1	0.3±0.1

REEL

QUANTITY PER REEL

CASE SIZE	REEL SIZE
	7"
A	2,000 pcs
B	2,000 pcs
C	500 pcs
D	500 pcs
E	400 pcs
Y	1,000 pcs



REEL DIMENSIONS

Unit: mm

CASE SIZE	A	B	C	D	E	W	T	R
A, B	180+0/-3	60	13.0±0.2	21.0±0.8	2.0±0.5	9.0±0.3	1.2±0.5	1.0
C, D, E, Y	330+0/-3	60	13.0±0.2	21.0±0.8	2.0±0.5	9.0±0.3	1.2±0.5	1.0