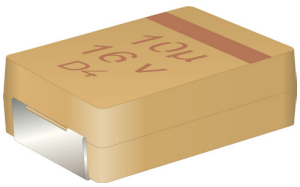
TCR SERIES
LOW ESR TANTALUM CAPACITORS

VENKEL LTD.



FEATURES:

- Excellent frequency characteristics and impedance
- Laser marking for easy identification
- Voltage range: 2.5V to 50V
- Operating temperature: -55°C to + 125°C
- Capacitance range: 0.15uF to 1500uF

RoHS Compliant | REACH Compliant | HF Halogen FREE | Conflict Minerals FREE 3TG

PART NUMBER STRUCTURE

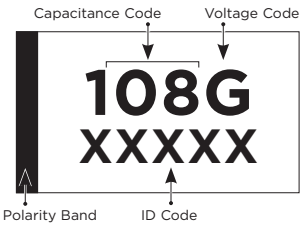
TA	035	TCR	226	K	D	R	0300
Tantalum Capacitor	**Rated Voltage** 2R5 = 2.5V 4R0 = 4.0V 6R3 = 6.3V 010 = 10V 016 = 16V 020 = 20V 025 = 25V 035 = 35V 050 =50V	**Series** TCR	**Capacitance** (pico - Farads) 1st two figures are significant. Third is the number of zeros to follow. 105 = 1.0uF 226 = 22uF 107 = 100uF	**Tolerance** K = ±10% M = ±20%	**Case Code** A B C D E	**Packaging** R = Tape & Reel	**ESR Value** 0080=80mΩ 0300=300mΩ 1500=1.5Ω

Example P/N: TA035TCR226KDR0300

Standard termination finish is 100% matte Tin (Sn) over Nickel

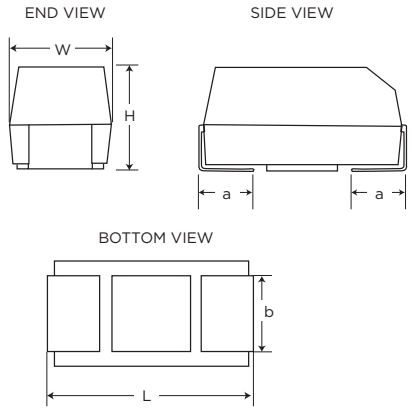
MARKING CODE

VOLTAGE CODE (A,B,C,D, & E CASE)



VOLTAGE CODE	RATED VOLTAGE
e	2.5V
G	4V
J	6.3V
A	10V
C	16V
D	20V
E	25V
V	35V
T	50V

DIMENSIONS



Unit: mm (inch)

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)

STANDARD RATINGS & CASE CODES

RATED VOLTAGE / CAPACITANCE (UF)	2.5V	4V	6.3V	10V	16V	20V	25V	35V	50V
0.15									A(9000)
0.22								A(6000)	A(7000)
0.33								A(6000)	A(7000)
0.47							A(7000)	A(6000) B(4000)	A(6500) B(6000) C(2300)
0.68							A(6000)	A(6000)	B(4000)
1					A(6200)	A(3000)	A(4000)	A(3000) B(2000)	B(3000) C(2500)
1.5						A(3000)	A(3000) B(1800)	A(3000) B(2500)	C(1500,2000)
2.2				A(1800)	A(1800,3500)	A(3000) B(1700)	A(2500) B(900,1200,2500)	A(1500) B(750,1500,2000) C(1000)	C(1500) D(1200)
3.3			A(2100)		A(3500) B(2500)	A(2500) B(1300)	A(1000,1500) B(750,1500,2000)	B(1000) C(700)	C(1000) D(800)
4.7				A(1400) B(1400)	A(2000) B(800,1500)	A(1800) B(750,1000)	B(700,900,1500) C(700)	B(700,1500) C(600) D(700)	C(800) D(250,300, 500,700)
6.8			A(1800)	A(1800) B(1300)	A(1500) B(600,1200)	A(1000) B(600,1000) C(700)	B(700) C(500,600,700)	C(350) D(150,400,500)	D(200,300, 500,600)
10			A(1500) B(1500)	A(900,1800) B(1000)	A(1000) B(500,800) C(500)	B(500,1000) C(500,700)	B(1800) C(300,500) D(500)	C(600) D(125,300) E(100,150,200)	D(500) E(250,300, 400,500)
15			A(700,1500)	A(1000) B(450,600) C(700)	B(500,800) C(300,700)	B(500) C(400,450)	C(220,300) D(100,300)	C(350,450) D(100,300)	E(250)
22			A(300,500,900) B(375,600) C(500)	A(900) B(400,500,700) C(300)	B(400,600) C(150,250,300,375) D(700)	B(400,600) C(100,150,400) D(200,300)	C(275,400) D(100,200,300)	D(125,200,300,400) E(125,200,300)	
33			A(600) B(250,350,450,600)	A(700) B(250,425,500,650) C(150,375,500)	B(350,500) C(100,150,225,300) D(200)	C(300) D(100,200)	C(400) D(100,200,300) E(100,175,200,300)	D(200,300) E(100,250,300)	
47		A(500)	A(800) B(250,350,500) C(300)	B(250,350,500,650) C(200,350) D(100,300)	C(110,350) D(80,100,150,200)	D(75,100,200) E(70,125,150, 200,250)	D(125,150,250 E(80,100,125)	D(300)E(200,250)	
68			B(250,350,500) C(150,200)	B(600) C(80,100,200,300) D(100,150)	C(125,200) D(70,100,150)	D(70,150, 200,300) E(125,150,200)	D(150,200,300) E(125,200)		
100	B(200)	B(200,250, 350,500)	B(250,400) C(75,150) D(300)	B(400) C(75,100,150,200) D(50,65,80, 100,125,150) E(125)	C(200) D(60,100,125,150) E(55,100,125,150)	D(85,100,150) E(100,150,200)	E(150)		
150	B(150)	B(250) C(70,80)	C(50,90,150,200,250) D(50,125)	C(150) D(50,85,100) E(100)	D(60,85,100,125,150) E(50,100)				
220	B(150,200, 600) D(45)	D(40,50,100)	C(70,100,125,250) D(50,100,125) E(100)	D(40,50,100,150) E(50,60,70, 100,125,150)	D(200)* E(50,100,150)				
330		C(100) D(35,45,100)	C(80,100) D(45,50,70,100) E(50,100,125,150)	D(50,65,100,150) E(40,50,60,100)	E(200)*				
470	D(35)	D(45,100) E(35,45,100)	D(45,60,100,200) E(45,50,60,100,200)	E(45,50,60,100,200)					
680	D(35,50) E(35,50)	D(45,60,100) E(40,60,100)	E(45,60,100)	E(150)*					
1000	E(30,40)	E(40,60)	E(100)*						
1500	D(100) E(50)	E(50,75)							

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
2.5	100	B	85	1.7	125	2.5	8	200	0.652	0.587	0.261	TA2R5TCR107#BR0200
2.5	150	B	85	1.7	125	3	10	150	0.753	0.677	0.301	TA2R5TCR157#BR0150
2.5	220	B	85	1.7	125	4.4	16	150	0.753	0.677	0.301	TA2R5TCR227#BR0150
2.5	220	B	85	1.7	125	4.4	16	200	0.652	0.587	0.261	TA2R5TCR227#BR0200
2.5	220	B	85	1.7	125	4.4	16	600	0.376	0.339	0.151	TA2R5TCR227#BR0600
2.5	220	D	85	1.7	125	5.5	8	45	1.826	1.643	0.73	TA2R5TCR227#DR0045
2.5	470	D	85	1.7	125	11.6	8	35	2.07	1.863	0.828	TA2R5TCR477#DR0035
2.5	680	D	85	1.7	125	17	16	35	2.07	1.863	0.828	TA2R5TCR687#DR0035
2.5	680	D	85	1.7	125	17	16	50	1.732	1.559	0.693	TA2R5TCR687#DR0050
2.5	680	E	85	1.7	125	17	10	35	2.171	1.954	0.868	TA2R5TCR687#ER0035
2.5	680	E	85	1.7	125	17	10	50	1.817	1.635	0.727	TA2R5TCR687#ER0050
2.5	1000	E	85	1.7	125	25	14	30	2.345	2.111	0.938	TA2R5TCR108#ER0030
2.5	1000	E	85	1.7	125	25	14	40	2.031	1.828	0.812	TA2R5TCR108#ER0040
2.5	1500	D	85	1.7	125	37.5	60	100	1.225	1.102	0.49	TA2R5TCR158#DR0100
2.5	1500	E	85	1.7	125	37.5	20	50	1.817	1.635	0.727	TA2R5TCR158#ER0050
4	47	A	85	2.7	125	1.9	8	500	0.387	0.349	0.155	TA4R0TCR476#AR0500
4	100	B	85	2.7	125	4	8	200	0.652	0.587	0.261	TA4R0TCR107#BR0200
4	100	B	85	2.7	125	4	8	250	0.583	0.525	0.233	TA4R0TCR107#BR0250
4	100	B	85	2.7	125	4	8	350	0.493	0.444	0.197	TA4R0TCR107#BR0350
4	100	B	85	2.7	125	4	8	500	0.412	0.371	0.165	TA4R0TCR107#BR0500
4	150	B	85	2.7	125	6	10	250	0.583	0.525	0.233	TA4R0TCR157#BR0250
4	150	C	85	2.7	125	6	6	70	1.254	1.128	0.501	TA4R0TCR157#CR0070
4	150	C	85	2.7	125	6	6	80	1.173	1.055	0.469	TA4R0TCR157#CR0080
4	220	D	85	2.7	125	8.8	8	40	1.936	1.743	0.775	TA4R0TCR227#DR0040
4	220	D	85	2.7	125	8.8	8	50	1.732	1.559	0.693	TA4R0TCR227#DR0050
4	220	D	85	2.7	125	8.8	8	100	1.225	1.102	0.49	TA4R0TCR227#DR0100
4	330	C	85	2.7	125	13.2	8	100	1.049	0.944	0.42	TA4R0TCR337#CR0100
4	330	D	85	2.7	125	13.2	8	35	2.07	1.863	0.828	TA4R0TCR337#DR0035
4	330	D	85	2.7	125	13.2	8	45	1.826	1.643	0.73	TA4R0TCR337#DR0045
4	330	D	85	2.7	125	13.2	8	100	1.225	1.102	0.49	TA4R0TCR337#DR0100
4	470	D	85	2.7	125	18.8	12	45	1.826	1.643	0.73	TA4R0TCR477#DR0045
4	470	D	85	2.7	125	18.8	12	100	1.225	1.102	0.49	TA4R0TCR477#DR0100
4	470	E	85	2.7	125	18.8	10	35	2.171	1.954	0.868	TA4R0TCR477#ER0035
4	470	E	85	2.7	125	18.8	10	45	1.915	1.723	0.766	TA4R0TCR477#ER0045
4	470	E	85	2.7	125	18.8	10	100	1.285	1.156	0.514	TA4R0TCR477#ER0100
4	680	D	85	2.7	125	27.2	14	45	1.826	1.643	0.73	TA4R0TCR687#DR0045
4	680	D	85	2.7	125	27.2	14	60	1.581	1.423	0.632	TA4R0TCR687#DR0060
4	680	D	85	2.7	125	27.2	14	100	1.225	1.102	0.49	TA4R0TCR687#DR0100
4	680	E	85	2.7	125	27.2	10	40	2.031	1.828	0.812	TA4R0TCR687#ER0040
4	680	E	85	2.7	125	27.2	10	60	1.658	1.492	0.663	TA4R0TCR687#ER0060
4	680	E	85	2.7	125	27.2	10	100	1.285	1.156	0.514	TA4R0TCR687#ER0100
4	1000	E	85	2.7	125	40	14	40	2.031	1.828	0.812	TA4R0TCR108#ER0040

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
4	1000	E	85	2.7	125	40	14	60	1.658	1.492	0.663	TA4R0TCR108#ER0060
4	1500	E	85	2.7	125	60	30	50	1.817	1.635	0.727	TA4R0TCR158#ER0050
4	1500	E	85	2.7	125	60	30	75	1.483	1.335	0.593	TA4R0TCR158#ER0075
6.3	3.3	A	85	4	125	0.5	6	2100	0.189	0.17	0.076	TA6R3TCR335#AR2100
6.3	6.8	A	85	4	125	0.5	6	1800	0.204	0.184	0.082	TA6R3TCR685#AR1800
6.3	10	A	85	4	125	0.6	6	1500	0.224	0.201	0.089	TA6R3TCR106#AR1500
6.3	10	B	85	4	125	0.6	6	1500	0.238	0.214	0.095	TA6R3TCR106#BR1500
6.3	15	A	85	4	125	0.9	6	700	0.327	0.295	0.131	TA6R3TCR156#AR0700
6.3	15	A	85	4	125	0.9	6	1500	0.224	0.201	0.089	TA6R3TCR156#AR1500
6.3	22	A	85	4	125	1.4	6	300	0.5	0.45	0.2	TA6R3TCR226#AR0300
6.3	22	A	85	4	125	1.4	6	500	0.387	0.349	0.155	TA6R3TCR226#AR0500
6.3	22	A	85	4	125	1.4	6	900	0.289	0.26	0.115	TA6R3TCR226#AR0900
6.3	22	B	85	4	125	1.4	6	375	0.476	0.428	0.19	TA6R3TCR226#BR0375
6.3	22	B	85	4	125	1.4	6	600	0.376	0.339	0.151	TA6R3TCR226#BR0600
6.3	22	C	85	4	125	1.4	6	500	0.469	0.422	0.188	TA6R3TCR226#CR0500
6.3	33	A	85	4	125	2.1	8	600	0.354	0.318	0.141	TA6R3TCR336#AR0600
6.3	33	B	85	4	125	2.1	6	250	0.583	0.525	0.233	TA6R3TCR336#BR0250
6.3	33	B	85	4	125	2.1	6	350	0.493	0.444	0.197	TA6R3TCR336#BR0350
6.3	33	B	85	4	125	2.1	6	450	0.435	0.391	0.174	TA6R3TCR336#BR0450
6.3	33	B	85	4	125	2.1	6	600	0.376	0.339	0.151	TA6R3TCR336#BR0600
6.3	47	A	85	4	125	2.8	10	800	0.306	0.276	0.122	TA6R3TCR476#AR0800
6.3	47	B	85	4	125	3	6	250	0.583	0.525	0.233	TA6R3TCR476#BR0250
6.3	47	B	85	4	125	3	6	350	0.493	0.444	0.197	TA6R3TCR476#BR0350
6.3	47	B	85	4	125	3	6	500	0.412	0.371	0.165	TA6R3TCR476#BR0500
6.3	47	C	85	4	125	3	6	300	0.606	0.545	0.242	TA6R3TCR476#CR0300
6.3	68	B	85	4	125	4	8	250	0.583	0.525	0.233	TA6R3TCR686#BR0250
6.3	68	B	85	4	125	4	8	350	0.493	0.444	0.197	TA6R3TCR686#BR0350
6.3	68	B	85	4	125	4	8	500	0.412	0.371	0.165	TA6R3TCR686#BR0500
6.3	68	C	85	4	125	4.3	6	150	0.856	0.771	0.343	TA6R3TCR686#CR0150
6.3	68	C	85	4	125	4.3	6	200	0.742	0.667	0.297	TA6R3TCR686#CR0200
6.3	100	B	85	4	125	6.3	10	250	0.583	0.525	0.233	TA6R3TCR107#BR0250
6.3	100	B	85	4	125	6.3	10	400	0.461	0.415	0.184	TA6R3TCR107#BR0400
6.3	100	C	85	4	125	6.3	6	75	1.211	1.09	0.484	TA6R3TCR107#CR0075
6.3	100	C	85	4	125	6.3	6	150	0.856	0.771	0.343	TA6R3TCR107#CR0150
6.3	100	D	85	4	125	6.3	6	300	0.707	0.636	0.283	TA6R3TCR107#DR0300
6.3	150	C	85	4	125	9.5	6	50	1.483	1.335	0.593	TA6R3TCR157#CR0050
6.3	150	C	85	4	125	9.5	6	90	1.106	0.995	0.442	TA6R3TCR157#CR0090
6.3	150	C	85	4	125	9.5	6	150	0.856	0.771	0.343	TA6R3TCR157#CR0150
6.3	150	C	85	4	125	9.5	6	200	0.742	0.667	0.297	TA6R3TCR157#CR0200
6.3	150	C	85	4	125	9.5	6	250	0.663	0.597	0.265	TA6R3TCR157#CR0250
6.3	150	D	85	4	125	9.5	6	50	1.732	1.559	0.693	TA6R3TCR157#DR0050
6.3	150	D	85	4	125	9.5	6	125	1.095	0.986	0.438	TA6R3TCR157#DR0125

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
6.3	220	C	85	4	125	13.9	8	70	1.254	1.128	0.501	TA6R3TCR227#CR0070
6.3	220	C	85	4	125	13.9	8	100	1.049	0.944	0.42	TA6R3TCR227#CR0100
6.3	220	C	85	4	125	13.9	8	125	0.938	0.844	0.375	TA6R3TCR227#CR0125
6.3	220	C	85	4	125	13.9	8	250	0.663	0.597	0.265	TA6R3TCR227#CR0250
6.3	220	D	85	4	125	13.9	8	50	1.732	1.559	0.693	TA6R3TCR227#DR0050
6.3	220	D	85	4	125	13.9	8	100	1.225	1.102	0.49	TA6R3TCR227#DR0100
6.3	220	D	85	4	125	13.9	8	125	1.095	0.986	0.438	TA6R3TCR227#DR0125
6.3	220	E	85	4	125	13.9	8	100	1.285	1.156	0.514	TA6R3TCR227#ER0100
6.3	330	C	85	4	125	19.8	12	80	1.173	1.055	0.469	TA6R3TCR337#CR0080
6.3	330	C	85	4	125	19.8	12	100	1.049	0.944	0.42	TA6R3TCR337#CR0100
6.3	330	D	85	4	125	20.8	8	45	1.826	1.643	0.73	TA6R3TCR337#DR0045
6.3	330	D	85	4	125	20.8	8	50	1.732	1.559	0.693	TA6R3TCR337#DR0050
6.3	330	D	85	4	125	20.8	8	70	1.464	1.317	0.586	TA6R3TCR337#DR0070
6.3	330	D	85	4	125	20.8	8	100	1.225	1.102	0.49	TA6R3TCR337#DR0100
6.3	330	E	85	4	125	20.8	8	50	1.817	1.635	0.727	TA6R3TCR337#ER0050
6.3	330	E	85	4	125	20.8	8	100	1.285	1.156	0.514	TA6R3TCR337#ER0100
6.3	330	E	85	4	125	20.8	8	125	1.149	1.034	0.46	TA6R3TCR337#ER0125
6.3	330	E	85	4	125	20.8	8	150	1.049	0.944	0.42	TA6R3TCR337#ER0150
6.3	470	D	85	4	125	28	12	45	1.826	1.643	0.73	TA6R3TCR477#DR0045
6.3	470	D	85	4	125	28	12	60	1.581	1.423	0.632	TA6R3TCR477#DR0060
6.3	470	D	85	4	125	28	12	100	1.225	1.102	0.49	TA6R3TCR477#DR0100
6.3	470	D	85	4	125	28	12	200	0.866	0.779	0.346	TA6R3TCR477#DR0200
6.3	470	E	85	4	125	28	10	45	1.915	1.723	0.766	TA6R3TCR477#ER0045
6.3	470	E	85	4	125	28	10	50	1.817	1.635	0.727	TA6R3TCR477#ER0050
6.3	470	E	85	4	125	28	10	60	1.658	1.492	0.663	TA6R3TCR477#ER0060
6.3	470	E	85	4	125	28	10	100	1.285	1.156	0.514	TA6R3TCR477#ER0100
6.3	470	E	85	4	125	28	10	200	0.908	0.817	0.363	TA6R3TCR477#ER0200
6.3	680	E	85	4	125	42.8	10	45	1.915	1.723	0.766	TA6R3TCR687#ER0045
6.3	680	E	85	4	125	42.8	10	60	1.658	1.492	0.663	TA6R3TCR687#ER0060
6.3	680	E	85	4	125	42.8	10	100	1.285	1.156	0.514	TA6R3TCR687#ER0100
6.3	1000	E	85	4	125	60	20	100	1.285	1.156	0.514	TA6R3TCR108MER0100
10	2.2	A	85	7	125	0.5	6	1800	0.204	0.184	0.082	TA010TCR225#AR1800
10	4.7	A	85	7	125	0.5	6	1400	0.231	0.208	0.093	TA010TCR475#AR1400
10	4.7	B	85	7	125	0.5	6	1400	0.246	0.222	0.099	TA010TCR475#BR1400
10	6.8	A	85	7	125	0.7	6	1800	0.204	0.184	0.082	TA010TCR685#AR1800
10	6.8	B	85	7	125	0.7	6	1300	0.256	0.23	0.102	TA010TCR685#BR1300
10	10	A	85	7	125	1	6	900	0.289	0.26	0.115	TA010TCR106#AR0900
10	10	A	85	7	125	1	6	1800	0.204	0.184	0.082	TA010TCR106#AR1800
10	10	B	85	7	125	1	6	1000	0.292	0.262	0.117	TA010TCR106#BR1000
10	15	A	85	7	125	1.5	6	1000	0.274	0.246	0.11	TA010TCR156#AR1000
10	15	B	85	7	125	1.5	6	450	0.435	0.391	0.174	TA010TCR156#BR0450
10	15	B	85	7	125	1.5	6	600	0.376	0.339	0.151	TA010TCR156#BR0600

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
10	15	C	85	7	125	1.5	6	700	0.396	0.357	0.159	TA010TCR156#CR0700
10	22	A	85	7	125	2.2	8	900	0.289	0.26	0.115	TA010TCR226#AR0900
10	22	B	85	7	125	2.2	6	400	0.461	0.415	0.184	TA010TCR226#BR0400
10	22	B	85	7	125	2.2	6	500	0.412	0.371	0.165	TA010TCR226#BR0500
10	22	B	85	7	125	2.2	6	700	0.348	0.314	0.139	TA010TCR226#BR0700
10	22	C	85	7	125	2.2	6	300	0.606	0.545	0.242	TA010TCR226#CR0300
10	33	A	85	7	125	3.3	8	700	0.327	0.295	0.131	TA010TCR336#AR0700
10	33	B	85	7	125	3.3	6	250	0.583	0.525	0.233	TA010TCR336#BR0250
10	33	B	85	7	125	3.3	6	425	0.447	0.402	0.179	TA010TCR336#BR0425
10	33	B	85	7	125	3.3	6	500	0.412	0.371	0.165	TA010TCR336#BR0500
10	33	B	85	7	125	3.3	6	650	0.362	0.325	0.145	TA010TCR336#BR0650
10	33	C	85	7	125	3.3	6	150	0.856	0.771	0.343	TA010TCR336#CR0150
10	33	C	85	7	125	3.3	6	375	0.542	0.487	0.217	TA010TCR336#CR0375
10	33	C	85	7	125	3.3	6	500	0.469	0.422	0.188	TA010TCR336#CR0500
10	47	B	85	7	125	4.7	8	250	0.583	0.525	0.233	TA010TCR476#BR0250
10	47	B	85	7	125	4.7	8	350	0.493	0.444	0.197	TA010TCR476#BR0350
10	47	B	85	7	125	4.7	8	500	0.412	0.371	0.165	TA010TCR476#BR0500
10	47	B	85	7	125	4.7	8	650	0.362	0.325	0.145	TA010TCR476#BR0650
10	47	C	85	7	125	4.7	6	200	0.742	0.667	0.297	TA010TCR476#CR0200
10	47	C	85	7	125	4.7	6	350	0.561	0.505	0.224	TA010TCR476#CR0350
10	47	D	85	7	125	4.7	6	100	1.225	1.102	0.49	TA010TCR476#DR0100
10	47	D	85	7	125	4.7	6	300	0.707	0.636	0.283	TA010TCR476#DR0300
10	68	B	85	7	125	6.8	8	600	0.376	0.339	0.151	TA010TCR686#BR0600
10	68	C	85	7	125	6.8	6	80	1.173	1.055	0.469	TA010TCR686#CR0080
10	68	C	85	7	125	6.8	6	100	1.049	0.944	0.42	TA010TCR686#CR0100
10	68	C	85	7	125	6.8	6	200	0.742	0.667	0.297	TA010TCR686#CR0200
10	68	C	85	7	125	6.8	6	300	0.606	0.545	0.242	TA010TCR686#CR0300
10	68	D	85	7	125	6.8	6	100	1.225	1.102	0.49	TA010TCR686#DR0100
10	68	D	85	7	125	6.8	6	150	1	0.9	0.4	TA010TCR686#DR0150
10	100	B	85	7	125	10	8	400	0.461	0.415	0.184	TA010TCR107#BR0400
10	100	C	85	7	125	10	8	75	1.211	1.09	0.484	TA010TCR107#CR0075
10	100	C	85	7	125	10	8	100	1.049	0.944	0.42	TA010TCR107#CR0100
10	100	C	85	7	125	10	8	150	0.856	0.771	0.343	TA010TCR107#CR0150
10	100	C	85	7	125	10	8	200	0.742	0.667	0.297	TA010TCR107#CR0200
10	100	D	85	7	125	10	6	50	1.732	1.559	0.693	TA010TCR107#DR0050
10	100	D	85	7	125	10	6	65	1.519	1.367	0.608	TA010TCR107#DR0065
10	100	D	85	7	125	10	6	80	1.369	1.232	0.548	TA010TCR107#DR0080
10	100	D	85	7	125	10	6	100	1.225	1.102	0.49	TA010TCR107#DR0100
10	100	D	85	7	125	10	6	125	1.095	0.986	0.438	TA010TCR107#DR0125
10	100	D	85	7	125	10	6	150	1	0.9	0.4	TA010TCR107#DR0150
10	100	E	85	7	125	10	6	125	1.149	1.034	0.46	TA010TCR107#ER0125
10	150	C	85	7	125	15	8	150	0.856	0.771	0.343	TA010TCR157#CR0150

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
10	150	D	85	7	125	15	8	50	1.732	1.559	0.693	TA010TCR157#DR0050
10	150	D	85	7	125	15	8	85	1.328	1.196	0.531	TA010TCR157#DR0085
10	150	D	85	7	125	15	8	100	1.225	1.102	0.49	TA010TCR157#DR0100
10	150	E	85	7	125	15	8	100	1.285	1.156	0.514	TA010TCR157#ER0100
10	220	D	85	7	125	22	8	40	1.936	1.743	0.775	TA010TCR227#DR0040
10	220	D	85	7	125	22	8	50	1.732	1.559	0.693	TA010TCR227#DR0050
10	220	D	85	7	125	22	8	100	1.225	1.102	0.49	TA010TCR227#DR0100
10	220	D	85	7	125	22	8	150	1	0.9	0.4	TA010TCR227#DR0150
10	220	E	85	7	125	22	8	50	1.817	1.635	0.727	TA010TCR227#ER0050
10	220	E	85	7	125	22	8	60	1.658	1.492	0.663	TA010TCR227#ER0060
10	220	E	85	7	125	22	8	70	1.535	1.382	0.614	TA010TCR227#ER0070
10	220	E	85	7	125	22	8	100	1.285	1.156	0.514	TA010TCR227#ER0100
10	220	E	85	7	125	22	8	125	1.149	1.034	0.46	TA010TCR227#ER0125
10	220	E	85	7	125	22	8	150	1.049	0.944	0.42	TA010TCR227#ER0150
10	330	D	85	7	125	33	8	50	1.732	1.559	0.693	TA010TCR337#DR0050
10	330	D	85	7	125	33	8	65	1.519	1.367	0.608	TA010TCR337#DR0065
10	330	D	85	7	125	33	8	100	1.225	1.102	0.49	TA010TCR337#DR0100
10	330	D	85	7	125	33	8	150	1	0.9	0.4	TA010TCR337#DR0150
10	330	E	85	7	125	33	8	40	2.031	1.828	0.812	TA010TCR337#ER0040
10	330	E	85	7	125	33	8	50	1.817	1.635	0.727	TA010TCR337#ER0050
10	330	E	85	7	125	33	8	60	1.658	1.492	0.663	TA010TCR337#ER0060
10	330	E	85	7	125	33	8	100	1.285	1.156	0.514	TA010TCR337#ER0100
10	470	E	85	7	125	47	10	45	1.915	1.723	0.766	TA010TCR477#ER0045
10	470	E	85	7	125	47	10	50	1.817	1.635	0.727	TA010TCR477#ER0050
10	470	E	85	7	125	47	10	60	1.658	1.492	0.663	TA010TCR477#ER0060
10	470	E	85	7	125	47	10	100	1.285	1.156	0.514	TA010TCR477#ER0100
10	470	E	85	7	125	47	10	200	0.908	0.817	0.363	TA010TCR477#ER0200
10	680	E	85	7	125	68	18	150	1.049	0.944	0.42	TA010TCR687MER0150
16	1	A	85	10	125	0.5	4	6200	0.11	0.099	0.044	TA016TCR105#AR6200
16	2.2	A	85	10	125	0.5	6	1800	0.204	0.184	0.082	TA016TCR225#AR1800
16	2.2	A	85	10	125	0.5	6	3500	0.146	0.132	0.059	TA016TCR225#AR3500
16	3.3	A	85	10	125	0.5	6	3500	0.146	0.132	0.059	TA016TCR335#AR3500
16	3.3	B	85	10	125	0.5	6	2500	0.184	0.166	0.074	TA016TCR335#BR2500
16	4.7	A	85	10	125	0.8	6	2000	0.194	0.174	0.077	TA016TCR475#AR2000
16	4.7	B	85	10	125	0.8	6	800	0.326	0.293	0.13	TA016TCR475#BR0800
16	4.7	B	85	10	125	0.8	6	1500	0.238	0.214	0.095	TA016TCR475#BR1500
16	6.8	A	85	10	125	1.1	6	1500	0.224	0.201	0.089	TA016TCR685#AR1500
16	6.8	B	85	10	125	1.1	6	600	0.376	0.339	0.151	TA016TCR685#BR0600
16	6.8	B	85	10	125	1.1	6	1200	0.266	0.24	0.106	TA016TCR685#BR1200
16	10	A	85	10	125	1.6	6	1000	0.274	0.246	0.11	TA016TCR106#AR1000
16	10	B	85	10	125	1.6	6	500	0.412	0.371	0.165	TA016TCR106#BR0500
16	10	B	85	10	125	1.6	6	800	0.326	0.293	0.13	TA016TCR106#BR0800

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
16	10	C	85	10	125	1.6	6	500	0.469	0.422	0.188	TA016TCR106#CR0500
16	15	B	85	10	125	2.4	6	500	0.412	0.371	0.165	TA016TCR156#BR0500
16	15	B	85	10	125	2.4	6	800	0.326	0.293	0.13	TA016TCR156#BR0800
16	15	C	85	10	125	2.4	6	300	0.606	0.545	0.242	TA016TCR156#CR0300
16	15	C	85	10	125	2.4	6	700	0.396	0.357	0.159	TA016TCR156#CR0700
16	22	B	85	10	125	3.5	6	400	0.461	0.415	0.184	TA016TCR226#BR0400
16	22	B	85	10	125	3.5	6	600	0.376	0.339	0.151	TA016TCR226#BR0600
16	22	C	85	10	125	3.5	6	150	0.856	0.771	0.343	TA016TCR226#CR0150
16	22	C	85	10	125	3.5	6	250	0.663	0.597	0.265	TA016TCR226#CR0250
16	22	C	85	10	125	3.5	6	300	0.606	0.545	0.242	TA016TCR226#CR0300
16	22	C	85	10	125	3.5	6	375	0.542	0.487	0.217	TA016TCR226#CR0375
16	22	D	85	10	125	3.5	6	700	0.463	0.417	0.185	TA016TCR226#DR0700
16	33	B	85	10	125	5.3	8	350	0.493	0.444	0.197	TA016TCR336#BR0350
16	33	B	85	10	125	5.3	8	500	0.412	0.371	0.165	TA016TCR336#BR0500
16	33	C	85	10	125	5.3	6	100	1.049	0.944	0.42	TA016TCR336#CR0100
16	33	C	85	10	125	5.3	6	150	0.856	0.771	0.343	TA016TCR336#CR0150
16	33	C	85	10	125	5.3	6	225	0.699	0.629	0.28	TA016TCR336#CR0225
16	33	C	85	10	125	5.3	6	300	0.606	0.545	0.242	TA016TCR336#CR0300
16	33	D	85	10	125	5.3	6	200	0.866	0.779	0.346	TA016TCR336#DR0200
16	47	C	85	10	125	7.5	6	110	1	0.9	0.4	TA016TCR476#CR0110
16	47	C	85	10	125	7.5	6	350	0.561	0.505	0.224	TA016TCR476#CR0350
16	47	D	85	10	125	7.5	6	80	1.369	1.232	0.548	TA016TCR476#DR0080
16	47	D	85	10	125	7.5	6	100	1.225	1.102	0.49	TA016TCR476#DR0100
16	47	D	85	10	125	7.5	6	150	1	0.9	0.4	TA016TCR476#DR0150
16	47	D	85	10	125	7.5	6	200	0.866	0.779	0.346	TA016TCR476#DR0200
16	68	C	85	10	125	10.9	6	125	0.938	0.844	0.375	TA016TCR686#CR0125
16	68	C	85	10	125	10.9	6	200	0.742	0.667	0.297	TA016TCR686#CR0200
16	68	D	85	10	125	10.9	6	70	1.464	1.317	0.586	TA016TCR686#DR0070
16	68	D	85	10	125	10.9	6	100	1.225	1.102	0.49	TA016TCR686#DR0100
16	68	D	85	10	125	10.9	6	150	1	0.9	0.4	TA016TCR686#DR0150
16	100	C	85	10	125	16	8	200	0.742	0.667	0.297	TA016TCR107#CR0200
16	100	D	85	10	125	16	6	60	1.581	1.423	0.632	TA016TCR107#DR0060
16	100	D	85	10	125	16	6	100	1.225	1.102	0.49	TA016TCR107#DR0100
16	100	D	85	10	125	16	6	125	1.095	0.986	0.438	TA016TCR107#DR0125
16	100	D	85	10	125	16	6	150	1	0.9	0.4	TA016TCR107#DR0150
16	100	E	85	10	125	16	6	55	1.732	1.559	0.693	TA016TCR107#ER0055
16	100	E	85	10	125	16	6	100	1.285	1.156	0.514	TA016TCR107#ER0100
16	100	E	85	10	125	16	6	125	1.149	1.034	0.46	TA016TCR107#ER0125
16	100	E	85	10	125	16	6	150	1.049	0.944	0.42	TA016TCR107#ER0150
16	150	D	85	10	125	24	6	60	1.581	1.423	0.632	TA016TCR157#DR0060
16	150	D	85	10	125	24	6	85	1.328	1.196	0.531	TA016TCR157#DR0085
16	150	D	85	10	125	24	6	100	1.225	1.102	0.49	TA016TCR157#DR0100

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
16	150	D	85	10	125	24	6	125	1.095	0.986	0.438	TA016TCR157#DR0125
16	150	D	85	10	125	24	6	150	1	0.9	0.4	TA016TCR157#DR0150
16	150	E	85	10	125	24	8	50	1.817	1.635	0.727	TA016TCR157#ER0050
16	150	E	85	10	125	24	8	100	1.285	1.156	0.514	TA016TCR157#ER0100
16	220	D	85	10	125	35.2	10	200	0.866	0.779	0.346	TA016TCR227MDR200V
16	220	E	85	10	125	35.2	10	50	1.817	1.635	0.727	TA016TCR227#ER0050
16	220	E	85	10	125	35.2	10	100	1.285	1.156	0.514	TA016TCR227#ER0100
16	220	E	85	10	125	35.2	10	150	1.049	0.944	0.42	TA016TCR227#ER0150
16	330	E	85	10	125	52.8	30	200	0.908	0.817	0.363	TA016TCR337MER0200
20	1	A	85	13	125	0.5	4	3000	0.158	0.142	0.063	TA020TCR105#AR3000
20	1.5	A	85	13	125	0.5	6	3000	0.158	0.142	0.063	TA020TCR155#AR3000
20	2.2	A	85	13	125	0.5	6	3000	0.158	0.142	0.063	TA020TCR225#AR3000
20	2.2	B	85	13	125	0.5	6	1700	0.224	0.201	0.089	TA020TCR225#BR1700
20	3.3	A	85	13	125	0.7	6	2500	0.173	0.156	0.069	TA020TCR335#AR2500
20	3.3	B	85	13	125	0.7	6	1300	0.256	0.23	0.102	TA020TCR335#BR1300
20	4.7	A	85	13	125	0.9	6	1800	0.204	0.184	0.082	TA020TCR475#AR1800
20	4.7	B	85	13	125	0.9	6	750	0.337	0.303	0.135	TA020TCR475#BR0750
20	4.7	B	85	13	125	0.9	6	1000	0.292	0.262	0.117	TA020TCR475#BR1000
20	6.8	A	85	13	125	1.4	6	1000	0.274	0.246	0.11	TA020TCR685#AR1000
20	6.8	B	85	13	125	1.4	6	600	0.376	0.339	0.151	TA020TCR685#BR0600
20	6.8	B	85	13	125	1.4	6	1000	0.292	0.262	0.117	TA020TCR685#BR1000
20	6.8	C	85	13	125	1.4	6	700	0.396	0.357	0.159	TA020TCR685#CR0700
20	10	B	85	13	125	2	6	500	0.412	0.371	0.165	TA020TCR106#BR0500
20	10	B	85	13	125	2	6	1000	0.292	0.262	0.117	TA020TCR106#BR1000
20	10	C	85	13	125	2	6	500	0.469	0.422	0.188	TA020TCR106#CR0500
20	10	C	85	13	125	2	6	700	0.396	0.357	0.159	TA020TCR106#CR0700
20	15	B	85	13	125	3	6	500	0.412	0.371	0.165	TA020TCR156#BR0500
20	15	C	85	13	125	3	6	400	0.524	0.472	0.21	TA020TCR156#CR0400
20	15	C	85	13	125	3	6	450	0.494	0.445	0.198	TA020TCR156#CR0450
20	22	B	85	13	125	4.4	6	400	0.461	0.415	0.184	TA020TCR226#BR0400
20	22	B	85	13	125	4.4	6	600	0.376	0.339	0.151	TA020TCR226#BR0600
20	22	C	85	13	125	4.4	6	100	1.049	0.944	0.42	TA020TCR226#CR0100
20	22	C	85	13	125	4.4	6	150	0.856	0.771	0.343	TA020TCR226#CR0150
20	22	C	85	13	125	4.4	6	400	0.524	0.472	0.21	TA020TCR226#CR0400
20	22	D	85	13	125	4.4	6	200	0.866	0.779	0.346	TA020TCR226#DR0200
20	22	D	85	13	125	4.4	6	300	0.707	0.636	0.283	TA020TCR226#DR0300
20	33	C	85	13	125	6.6	6	300	0.606	0.545	0.242	TA020TCR336#CR0300
20	33	D	85	13	125	6.6	6	100	1.225	1.102	0.49	TA020TCR336#DR0100
20	33	D	85	13	125	6.6	6	200	0.866	0.779	0.346	TA020TCR336#DR0200
20	47	D	85	13	125	9.4	6	75	1.414	1.273	0.566	TA020TCR476#DR0075
20	47	D	85	13	125	9.4	6	100	1.225	1.102	0.49	TA020TCR476#DR0100
20	47	D	85	13	125	9.4	6	200	0.866	0.779	0.346	TA020TCR476#DR0200

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
20	47	E	85	13	125	9.4	6	70	1.535	1.382	0.614	TA020TCR476#ER0070
20	47	E	85	13	125	9.4	6	125	1.149	1.034	0.46	TA020TCR476#ER0125
20	47	E	85	13	125	9.4	6	150	1.049	0.944	0.42	TA020TCR476#ER0150
20	47	E	85	13	125	9.4	6	200	0.908	0.817	0.363	TA020TCR476#ER0200
20	47	E	85	13	125	9.4	6	250	0.812	0.731	0.325	TA020TCR476#ER0250
20	68	D	85	13	125	13.6	6	70	1.464	1.317	0.586	TA020TCR686#DR0070
20	68	D	85	13	125	13.6	6	150	1	0.9	0.4	TA020TCR686#DR0150
20	68	D	85	13	125	13.6	6	200	0.866	0.779	0.346	TA020TCR686#DR0200
20	68	D	85	13	125	13.6	6	300	0.707	0.636	0.283	TA020TCR686#DR0300
20	68	E	85	13	125	13.6	6	125	1.149	1.034	0.46	TA020TCR686#ER0125
20	68	E	85	13	125	13.6	6	150	1.049	0.944	0.42	TA020TCR686#ER0150
20	68	E	85	13	125	13.6	6	200	0.908	0.817	0.363	TA020TCR686#ER0200
20	100	D	85	13	125	20	6	85	1.328	1.196	0.531	TA020TCR107#DR0085
20	100	D	85	13	125	20	6	100	1.225	1.102	0.49	TA020TCR107#DR0100
20	100	D	85	13	125	20	6	150	1	0.9	0.4	TA020TCR107#DR0150
20	100	E	85	13	125	20	6	100	1.285	1.156	0.514	TA020TCR107#ER0100
20	100	E	85	13	125	20	6	150	1.049	0.944	0.42	TA020TCR107#ER0150
20	100	E	85	13	125	20	6	200	0.908	0.817	0.363	TA020TCR107#ER0200
25	0.47	A	85	17	125	0.5	4	7000	0.104	0.093	0.041	TA025TCR474#AR7000
25	0.68	A	85	17	125	0.5	4	6000	0.112	0.101	0.045	TA025TCR684#AR6000
25	1	A	85	17	125	0.5	4	4000	0.137	0.123	0.055	TA025TCR105#AR4000
25	1.5	A	85	17	125	0.5	6	3000	0.158	0.142	0.063	TA025TCR155#AR3000
25	1.5	B	85	17	125	0.5	6	1800	0.217	0.196	0.087	TA025TCR155#BR1800
25	2.2	A	85	17	125	0.6	6	2500	0.173	0.156	0.069	TA025TCR225#AR2500
25	2.2	B	85	17	125	0.6	6	900	0.307	0.277	0.123	TA025TCR225#BR0900
25	2.2	B	85	17	125	0.6	6	1200	0.266	0.24	0.106	TA025TCR225#BR1200
25	2.2	B	85	17	125	0.6	6	2500	0.184	0.166	0.074	TA025TCR225#BR2500
25	3.3	A	85	17	125	0.8	6	1000	0.274	0.246	0.11	TA025TCR335#AR1000
25	3.3	A	85	17	125	0.8	6	1500	0.224	0.201	0.089	TA025TCR335#AR1500
25	3.3	B	85	17	125	0.8	6	750	0.337	0.303	0.135	TA025TCR335#BR0750
25	3.3	B	85	17	125	0.8	6	1500	0.238	0.214	0.095	TA025TCR335#BR1500
25	3.3	B	85	17	125	0.8	6	2000	0.206	0.186	0.082	TA025TCR335#BR2000
25	4.7	B	85	17	125	1.2	6	700	0.348	0.314	0.139	TA025TCR475#BR0700
25	4.7	B	85	17	125	1.2	6	900	0.307	0.277	0.123	TA025TCR475#BR0900
25	4.7	B	85	17	125	1.2	6	1500	0.238	0.214	0.095	TA025TCR475#BR1500
25	4.7	C	85	17	125	1.2	6	700	0.396	0.357	0.159	TA025TCR475#CR0700
25	6.8	B	85	17	125	1.7	6	700	0.348	0.314	0.139	TA025TCR685#BR0700
25	6.8	C	85	17	125	1.7	6	500	0.469	0.422	0.188	TA025TCR685#CR0500
25	6.8	C	85	17	125	1.7	6	600	0.428	0.385	0.171	TA025TCR685#CR0600
25	6.8	C	85	17	125	1.7	6	700	0.396	0.357	0.159	TA025TCR685#CR0700
25	10	B	85	17	125	2.5	6	1800	0.217	0.196	0.087	TA025TCR106#BR1800
25	10	C	85	17	125	2.5	6	300	0.606	0.545	0.242	TA025TCR106#CR0300

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
25	10	C	85	17	125	2.5	6	500	0.469	0.422	0.188	TA025TCR106#CR0500
25	10	D	85	17	125	2.5	6	500	0.548	0.493	0.219	TA025TCR106#DR0500
25	15	C	85	17	125	3.8	6	220	0.707	0.636	0.283	TA025TCR156#CR0220
25	15	C	85	17	125	3.8	6	300	0.606	0.545	0.242	TA025TCR156#CR0300
25	15	D	85	17	125	3.8	6	100	1.225	1.102	0.49	TA025TCR156#DR0100
25	15	D	85	17	125	3.8	6	300	0.707	0.636	0.283	TA025TCR156#DR0300
25	22	C	85	17	125	5.5	6	275	0.632	0.569	0.253	TA025TCR226#CR0275
25	22	C	85	17	125	5.5	6	400	0.524	0.472	0.21	TA025TCR226#CR0400
25	22	D	85	17	125	5.5	6	100	1.225	1.102	0.49	TA025TCR226#DR0100
25	22	D	85	17	125	5.5	6	200	0.866	0.779	0.346	TA025TCR226#DR0200
25	22	D	85	17	125	5.5	6	300	0.707	0.636	0.283	TA025TCR226#DR0300
25	33	C	85	17	125	8.3	6	400	0.524	0.472	0.21	TA025TCR336#CR0400
25	33	D	85	17	125	8.3	6	100	1.225	1.102	0.49	TA025TCR336#DR0100
25	33	D	85	17	125	8.3	6	200	0.866	0.779	0.346	TA025TCR336#DR0200
25	33	D	85	17	125	8.3	6	300	0.707	0.636	0.283	TA025TCR336#DR0300
25	33	E	85	17	125	8.3	6	100	1.285	1.156	0.514	TA025TCR336#ER0100
25	33	E	85	17	125	8.3	6	175	0.971	0.874	0.388	TA025TCR336#ER0175
25	33	E	85	17	125	8.3	6	200	0.908	0.817	0.363	TA025TCR336#ER0200
25	33	E	85	17	125	8.3	6	300	0.742	0.667	0.297	TA025TCR336#ER0300
25	47	D	85	17	125	11.8	6	125	1.095	0.986	0.438	TA025TCR476#DR0125
25	47	D	85	17	125	11.8	6	150	1	0.9	0.4	TA025TCR476#DR0150
25	47	D	85	17	125	11.8	6	250	0.775	0.697	0.31	TA025TCR476#DR0250
25	47	E	85	17	125	11.8	6	80	1.436	1.293	0.574	TA025TCR476#ER0080
25	47	E	85	17	125	11.8	6	100	1.285	1.156	0.514	TA025TCR476#ER0100
25	47	E	85	17	125	11.8	6	125	1.149	1.034	0.46	TA025TCR476#ER0125
25	68	D	85	17	125	17	6	150	1	0.9	0.4	TA025TCR686#DR0150
25	68	D	85	17	125	17	6	200	0.866	0.779	0.346	TA025TCR686#DR0200
25	68	D	85	17	125	17	6	300	0.707	0.636	0.283	TA025TCR686#DR0300
25	68	E	85	17	125	17	6	125	1.149	1.034	0.46	TA025TCR686#ER0125
25	68	E	85	17	125	17	6	200	0.908	0.817	0.363	TA025TCR686#ER0200
25	100	E	85	17	125	25	10	150	1.049	0.944	0.42	TA025TCR107#ER0150
35	0.22	A	85	23	125	0.5	4	6000	0.112	0.101	0.045	TA035TCR224#AR6000
35	0.33	A	85	23	125	0.5	4	6000	0.112	0.101	0.045	TA035TCR334#AR6000
35	0.47	A	85	23	125	0.5	4	6000	0.112	0.101	0.045	TA035TCR474#AR6000
35	0.47	B	85	23	125	0.5	4	4000	0.146	0.131	0.058	TA035TCR474#BR4000
35	0.68	A	85	23	125	0.5	4	6000	0.112	0.101	0.045	TA035TCR684#AR6000
35	1	A	85	23	125	0.5	4	3000	0.158	0.142	0.063	TA035TCR105#AR3000
35	1	B	85	23	125	0.5	4	2000	0.206	0.186	0.082	TA035TCR105#BR2000
35	1.5	A	85	23	125	0.5	6	3000	0.158	0.142	0.063	TA035TCR155#AR3000
35	1.5	B	85	23	125	0.5	6	2500	0.184	0.166	0.074	TA035TCR155#BR2500
35	2.2	A	85	23	125	0.8	6	1500	0.224	0.201	0.089	TA035TCR225#AR1500
35	2.2	B	85	23	125	0.8	6	750	0.337	0.303	0.135	TA035TCR225#BR0750

ELECTRICAL SPECIFICATIONS & PART NUMBERS

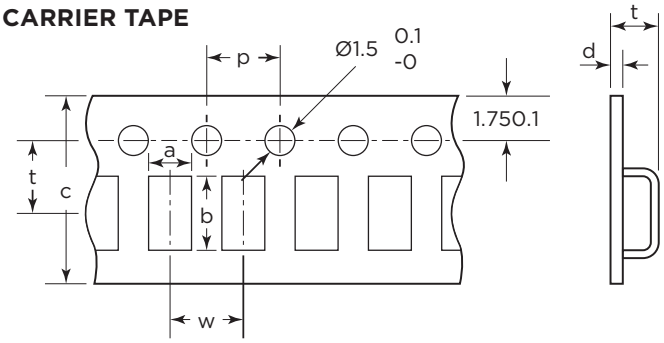
RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
35	2.2	B	85	23	125	0.8	6	1500	0.238	0.214	0.095	TA035TCR225#BR1500
35	2.2	B	85	23	125	0.8	6	2000	0.206	0.186	0.082	TA035TCR225#BR2000
35	2.2	C	85	23	125	0.8	6	1000	0.332	0.298	0.133	TA035TCR225#CR1000
35	3.3	B	85	23	125	1.2	6	1000	0.292	0.262	0.117	TA035TCR335#BR1000
35	3.3	C	85	23	125	1.2	6	700	0.396	0.357	0.159	TA035TCR335#CR0700
35	4.7	B	85	23	125	1.6	6	700	0.348	0.314	0.139	TA035TCR475#BR0700
35	4.7	B	85	23	125	1.6	6	1500	0.238	0.214	0.095	TA035TCR475#BR1500
35	4.7	C	85	23	125	1.6	6	600	0.428	0.385	0.171	TA035TCR475#CR0600
35	4.7	D	85	23	125	1.6	6	700	0.463	0.417	0.185	TA035TCR475#DR0700
35	6.8	C	85	23	125	2.4	6	350	0.561	0.505	0.224	TA035TCR685#CR0350
35	6.8	D	85	23	125	2.4	6	150	1	0.9	0.4	TA035TCR685#DR0150
35	6.8	D	85	23	125	2.4	6	400	0.612	0.551	0.245	TA035TCR685#DR0400
35	6.8	D	85	23	125	2.4	6	500	0.548	0.493	0.219	TA035TCR685#DR0500
35	10	C	85	23	125	3.5	6	600	0.428	0.385	0.171	TA035TCR106#CR0600
35	10	D	85	23	125	3.5	6	125	1.095	0.986	0.438	TA035TCR106#DR0125
35	10	D	85	23	125	3.5	6	300	0.707	0.636	0.283	TA035TCR106#DR0300
35	10	E	85	23	125	3.5	6	100	1.285	1.156	0.514	TA035TCR106#ER0100
35	10	E	85	23	125	3.5	6	150	1.049	0.944	0.42	TA035TCR106#ER0150
35	10	E	85	23	125	3.5	6	200	0.908	0.817	0.363	TA035TCR106#ER0200
35	15	C	85	23	125	5.3	6	350	0.561	0.505	0.224	TA035TCR156#CR0350
35	15	C	85	23	125	5.3	6	450	0.494	0.445	0.198	TA035TCR156#CR0450
35	15	D	85	23	125	5.3	6	100	1.225	1.102	0.49	TA035TCR156#DR0100
35	15	D	85	23	125	5.3	6	300	0.707	0.636	0.283	TA035TCR156#DR0300
35	22	D	85	23	125	7.7	6	125	1.095	0.986	0.438	TA035TCR226#DR0125
35	22	D	85	23	125	7.7	6	200	0.866	0.779	0.346	TA035TCR226#DR0200
35	22	D	85	23	125	7.7	6	300	0.707	0.636	0.283	TA035TCR226#DR0300
35	22	D	85	23	125	7.7	6	400	0.612	0.551	0.245	TA035TCR226#DR0400
35	22	E	85	23	125	7.7	6	125	1.149	1.034	0.46	TA035TCR226#ER0125
35	22	E	85	23	125	7.7	6	200	0.908	0.817	0.363	TA035TCR226#ER0200
35	22	E	85	23	125	7.7	6	300	0.742	0.667	0.297	TA035TCR226#ER0300
35	33	D	85	23	125	11.6	6	200	0.866	0.779	0.346	TA035TCR336#DR0200
35	33	D	85	23	125	11.6	6	300	0.707	0.636	0.283	TA035TCR336#DR0300
35	33	E	85	23	125	11.6	6	100	1.285	1.156	0.514	TA035TCR336#ER0100
35	33	E	85	23	125	11.6	6	250	0.812	0.731	0.325	TA035TCR336#ER0250
35	33	E	85	23	125	11.6	6	300	0.742	0.667	0.297	TA035TCR336#ER0300
35	47	D	85	23	125	16.5	6	300	0.707	0.636	0.283	TA035TCR476#DR0300
35	47	E	85	23	125	16.5	6	200	0.908	0.817	0.363	TA035TCR476#ER0200
35	47	E	85	23	125	16.5	6	250	0.812	0.731	0.325	TA035TCR476#ER0250
50	0.15	A	85	33	125	0.5	4	9000	0.091	0.082	0.037	TA050TCR154#AR9000
50	0.22	A	85	33	125	0.5	4	7000	0.104	0.093	0.041	TA050TCR224#AR7000
50	0.33	A	85	33	125	0.5	4	7000	0.104	0.093	0.041	TA050TCR334#AR7000
50	0.47	A	85	33	125	0.5	4	6500	0.107	0.097	0.043	TA050TCR474#AR6500

ELECTRICAL SPECIFICATIONS & PART NUMBERS

RATED VOLTAGE (V)	CAPACITANCE (µF)	CASE CODE	RATED TEMP (°C)	CATEGORY VOLTAGE (V)	CATEGORY TEMP (°C)	MAX. DCL @ +25°C (µA)	MAX. DF @ +25°C 120 Hz (%)	MAX. ESR 100 kHz (mΩ)	100kHz RMS Current (A)			VENKEL PART NUMBER #=K OR M tolerance unless specified
									25°C	85°C	125°C	
50	0.47	B	85	33	125	0.5	4	6000	0.119	0.107	0.048	TA050TCR474#BR6000
50	0.47	C	85	33	125	0.5	4	2300	0.219	0.197	0.087	TA050TCR474#CR2300
50	0.68	B	85	33	125	0.5	4	4000	0.146	0.131	0.058	TA050TCR684#BR4000
50	1	B	85	33	125	0.5	6	3000	0.168	0.151	0.067	TA050TCR105#BR3000
50	1	C	85	33	125	0.5	4	2500	0.21	0.189	0.084	TA050TCR105#CR2500
50	1.5	C	85	33	125	0.8	6	1500	0.271	0.244	0.108	TA050TCR155#CR1500
50	1.5	C	85	33	125	0.8	6	2000	0.235	0.211	0.094	TA050TCR155#CR2000
50	2.2	C	85	33	125	1.1	8	1500	0.271	0.244	0.108	TA050TCR225#CR1500
50	2.2	D	85	33	125	1.1	6	1200	0.354	0.318	0.141	TA050TCR225#DR1200
50	3.3	C	85	33	125	1.6	6	1000	0.332	0.298	0.133	TA050TCR335#CR1000
50	3.3	D	85	33	125	1.7	6	800	0.433	0.39	0.173	TA050TCR335#DR0800
50	4.7	C	85	33	125	2.4	6	800	0.371	0.334	0.148	TA050TCR475#CR0800
50	4.7	D	85	33	125	2.4	6	250	0.775	0.697	0.31	TA050TCR475#DR0250
50	4.7	D	85	33	125	2.4	6	300	0.707	0.636	0.283	TA050TCR475#DR0300
50	4.7	D	85	33	125	2.4	6	500	0.548	0.493	0.219	TA050TCR475#DR0500
50	4.7	D	85	33	125	2.4	6	700	0.463	0.417	0.185	TA050TCR475#DR0700
50	6.8	D	85	33	125	3.4	6	200	0.866	0.779	0.346	TA050TCR685#DR0200
50	6.8	D	85	33	125	3.4	6	300	0.707	0.636	0.283	TA050TCR685#DR0300
50	6.8	D	85	33	125	3.4	6	500	0.548	0.493	0.219	TA050TCR685#DR0500
50	6.8	D	85	33	125	3.4	6	600	0.5	0.45	0.2	TA050TCR685#DR0600
50	10	D	85	33	125	5	6	500	0.548	0.493	0.219	TA050TCR106#DR0500
50	10	E	85	33	125	5	6	250	0.812	0.731	0.325	TA050TCR106#ER0250
50	10	E	85	33	125	5	6	300	0.742	0.667	0.297	TA050TCR106#ER0300
50	10	E	85	33	125	5	6	400	0.642	0.578	0.257	TA050TCR106#ER0400
50	10	E	85	33	125	5	6	500	0.574	0.517	0.23	TA050TCR106#ER0500
50	15	E	85	33	125	7.5	6	250	0.812	0.731	0.325	TA050TCR156#ER0250

TAPE & REEL SPECIFICATIONS

CARRIER TAPE

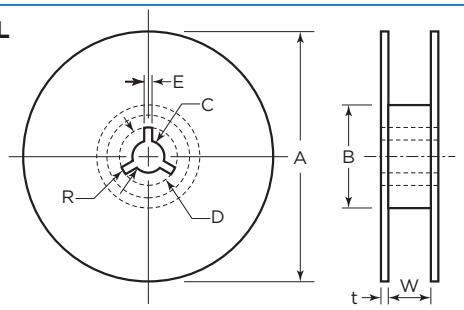


CARRIER TAPE DIMENSIONS

Unit: mm

Case Size	a ± 0.1	b ± 0.1	c ± 0.1	t ± 0.1	p ± 0.1	w ± 0.1	d ± 0.1
A	1.9	3.9	8.0	2.0	4.0	4.0	0.2
B	3.1	3.9	8.0	2.3	4.0	4.0	0.2
C	3.9	6.3	12.0	2.7	4.0	8.0	0.3
D	4.6	7.7	12.0	3.3	4.0	8.0	0.3
E	4.6	7.7	12.0	4.2	4.0	8.0	0.3

REEL



REEL DIMENSIONS

Unit: mm

CASE SIZE	A ± 0 -3.0	B -0	C ± 0.2	D ± 0.8	E ± 0.5	W ± 0.3	t ± 0.5	R
A, B	180	60	13.0	21.0	2.0	9.0	2.0	1.0
C, D, E	330	60	13.0	21.0	2.0	13.0	2.0	1.0

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

ENVIRONMENTAL CHARACTERISTICS

TEST	CONDITION	CHARACTERISTICS						
Endurance	Apply rated voltage (Vr) at 85°C and/or category voltage (Vc) at 125°C for 2000 hours through a circuit impedance of 0.1Ω/V. Stabilize at room temperature for 1-2 hours before measuring.	Visual examination	no visible damage					
		DCL	1.5 x initial limit					
		ΔC/C	within ±10% of initial value					
		DF	initial limit					
Humidity	Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring	Visual examination	no visible damage					
		DCL	1.5 x initial limit					
		ΔC/C	within ±10% of initial value					
		DF	1.2 x initial limit					
		ESR	1.25 x initial limit					
Temperature Stability	Step 1: +20, 15 min Step 2: -55, 15 min Step 3: +20, 15 min Step 4: +85, 15 min Step 5: +125, 15 min Step 6: +20, 15 min		+20°C	-55°C	+20°C	+85°C	+125°C	+20°C
		DCL	IL*	n/a	IL*	10 x IL*	12.5 x IL*	IL*
		ΔC/C	n/a	+0/-10%	±5%	+10/-0%	+12/-0%	±5%
		DF	IL*	1.5 x IL*	IL*	1.5 x IL*	2.0 x IL*	IL*
		ESR	1.25 x IL*	2.5 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL*	1.25 x IL*
Surge Voltage	Apply 1.3x category voltage (Vc) at 125°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge/discharge resistance of 1000Ω	Visual examination	no visible damage					
		DCL	initial limit					
		ΔC/C	within ±5% of initial value					
		DF	initial limit					
		ESR	1.25 x initial limit					
Mechanical Shock	MIL-STD-202, Method 213, Condition C	Visual examination	no visible damage					
		DCL	initial limit					
		ΔC/C	within ±5% of initial value					
		DF	initial limit					
		ESR	initial limit					
Vibration	MIL-STD-202, Method 204, Condition D	Visual examination	no visible damage					
		DCL	initial limit					
		ΔC/C	within ±5% of initial value					
		DF	initial limit					
		ESR	initial limit					