

Part Numbering System



① Category code

Type	Code
	1
Electrolytic Capacitor	E
Conductive Polymer	S

② Series code

Series name	Code	
	2	3
WH	W	H
CD11GE	G	E
CD11GES	G	X
CD11GAS	G	W
CD11GHS	G	S
NR	N	R
PZ	P	Z

③ Voltage code

WV (V _{dc})	Code	
	4	5
2.5	0	E
3	0	D
4	0	G
6.3	0	J
6.8	0	C
7	0	Q
7.5	0	A
10	1	A
12	1	T
16	1	C
25	1	E
35	1	V
40	1	G
50	1	H
63	1	J
80	1	B
100	1	K
120	2	B
160	2	C
180	2	L
200	2	D
220	2	N
250	2	E
315	2	F
350	2	V
380	2	P
400	2	G
420	2	T
450	2	W
500	2	H
550	2	J
600	2	K

④ Capacitance tolerance code

Tol. (%)	Code
	6
-10~+10	K
-20~+20	M
-10~+30	Q
-10~+20	V
0~+20	A
-5~+20	C
-10~-20	B
-5~+5	D
0~+10	E
-5~-20	F
-15~+5	N

⑤ Capacitance code

Cap (μF)	Code		
	7	8	9
0.10	R	1	0
0.22	R	2	2
0.33	R	3	3
0.47	R	4	7
0.68	R	6	8
1	0	1	0
2.2	2	R	2
3.3	3	R	3
4.7	4	R	7
6.8	6	R	8
10	1	0	0
22	2	2	0
33	3	3	0
47	4	7	0
68	6	8	0
100	1	0	1
220	2	2	1
330	3	3	1
470	4	7	1
680	6	8	1
1000	1	0	2
2200	2	2	2
3300	3	3	2
4700	4	7	2
6800	6	8	2
10000	1	0	3
22000	2	2	3
33000	3	3	3
68000	6	8	3

⑥ Size code

ΦD (mm)	Code
10	
4	C
5	D
6.3	E
8	F
10	G
11	H
12	J
12.5	W
13	K
14	X
16	L
18	M
19	Z
20	N
22	O
25	P
30	Q
35	R
40	Y
51.6	S
64.3	T
76.9	U
91	V
100	A

L (mm)	Code	
	11	12
5	0	5
7	0	7
11	1	1
12	1	2
16	1	6
20	2	0
25	2	5
30	3	0
35	3	5
40	4	0
46	4	6
50	5	0
60	6	0
80	8	0
100	A	0
115	B	5
120	C	0
130	D	0
140	E	0
160	G	0
200	K	0
220	M	0
236	N	6
250	P	0

⑦ Terminal code

Specification	Code	Size	
	13	14	15
Bulk packing	O	-	-
Taping (SMD Type)	D	0	0
Φ4~8 Taping F=5.0mm	P	5	0
Φ10~12.5 Taping F=5.0mm	B	5	0
Lead Cut L=3.5mm	C	3	5
Lead Cut L=11.0mm	C	B	0
Lead Forming & Cut L=4.5mm	F	-	-
Kink & Cut L=4.5mm	J	-	-
Snap-in type Terminal 4.0mm in length	K	-	-
Three Terminals	T	-	-
Ring clip mounting standard design	A	0	0
Ring clip mounting special design	S	-	-

⑧ Sleeve/Marking code

Sleeve/Marking	Code
	16
PVC	C
PET	T
Dark blue	B
Bright red	R
Sky-blue	S
Light blue	T
Pink	Z
Black	H
Purple-blue	V
Red	O

Lead Forming
Taping Specifications

Fig.1 code: X



Fig.2 code: B



Fig.3 code: B



Fig.4 code: P



Lead Forming

Specification Fig.1 & Fig.2 & Fig.3

Items	Symbol	Case size										Tolerance		
		4*5 4*7		5*5 5*7		5*11		6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5 8*12		8*16 8*20	10*9/12 10*12.5 10*13/16 10*20/25
Pin Code		X	B	X	B	X	B	B	B	B	B	B	B	
Lead wire diameter	Φd	0.45		0.45		0.5		0.45	0.5	0.5	0.45/0.5	0.6	0.6	±0.05
Pitch of body	P	12.7		12.7		12.7		12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7		12.7		12.7		12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	5.1	5.6	5.1	5.35	5.1	5.35	5.1	5.1	5.1	4.6	4.6	3.85	±0.7
Distance from feed hole center to body center	P2	6.35		6.35		6.35		6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	2.5	1.5	2.5	2.0	2.5	2.0	2.5	2.5	2.5	3.5	3.5	5.0	±0.5
Height of body from tape center	H	18.5		18.5		18.5		18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Base tape width	W	18.0		18.0		18.0		18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0		6.0		6.0		6.0	6.0	8.0	8.0	8.0	11.0	min
Hole position	W1	9.0		9.0		9.0		9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0		3.0		3.0		3.0	3.0	3.0	3.0	3.0	3.0	max

Specification Fig.4

Items	Symbol	Case size									Tolerance
		4*5 4*7	5*5	5*7	5*11	6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5/12	8*16 8*20	
Pin Code		P	P	P	P	P	P	P	P	P	
Lead wire diameter	Φd	0.45	0.45	0.45	0.5	0.45	0.5	0.5	0.45/0.5	0.6	±0.05
Pitch of body	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	±0.7
Distance from feed hole center to body center	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	1.5	2.0	2.0	2.0	2.5	2.5	2.5	3.5	3.5	±0.5
Lead to lead distance	F1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	+0.8 -0.2
Height of body from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Lead wire clinch height	H0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	±0.5
Base tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	min
Hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	max

Lead Forming

Lead Forming & Cut

Code:C
RANGE: $\Phi 4\sim\Phi 18$



Code:F
RANGE: $\Phi 4\sim\Phi 8$



ΦD	F	L	ΦD	F	L
4	1.5	3.0~12.0	4	5.0	3.5, 4.5, 5.0, 7.0
5	2.0	3.0~12.0	5	5.0	3.5, 4.5, 5.0, 7.0
6.3	2.5	3.0~12.0	6.3	5.0	3.5, 4.5, 5.0, 7.0
8	3.5	3.0~12.0	8	5.0	3.5, 4.5, 5.0, 7.0
10	5.0	3.0~12.0	-	-	-
12.5	5.0	3.0~12.0	-	-	-
16	7.5	3.0~12.0	-	-	-
18	7.5	3.0~12.0	-	-	-

Code:J
RANGE: $\Phi 10\sim\Phi 18$



ΦD	F	L
10	5.0	4.0, 4.5, 5.0
12.5	5.0	4.0, 4.5, 5.0
16	7.5	4.0, 4.5, 5.0
18	7.5	4.0, 4.5, 5.0

Solering Recommendation

■ Flow Soldering(Radial Lead Type)



■ Reflow Soldering

- (For Polymer SMD Type)

Recommended Reflow Profile



Item	Preheating	T1(°C)	T2(°C)	T3(°C)	t1(sec.)	t2(sec.)	t3(sec.)	Reflow cycle
Condition 1	150°C to 180°C Within 90sec.	≤260	230	200	≤10	≤40	≤60	1
Condition 2		≤250	230	200	≤10	≤40	≤60	2

● (For Liquid SMD Type)

Case size: $\Phi 6.3$ – $\Phi 10$ mm:

- Temperature at surface of capacitor shall not exceed $T^{\circ}\text{C}$.
- The duration for over 200°C temperature and $T_1^{\circ}\text{C}$ at surface of capacitor shall not exceed t and t_1 seconds, respectively.
- Preheat shall be done at 100°C to 200°C and for Maximum 180 seconds.



Case size (mm)	$T(^{\circ}\text{C})$ ①	$T_1(^{\circ}\text{C})$	$t(\text{sec.})$ ②	$t_1(\text{sec.})$ ③	Reflow cycle
$\Phi 6.3$	250	230	90	40	1
$\Phi 8$	240	230	90	30	1
$\Phi 10$	235	230	60	30	1

- ① Peak temperature
- ② The duration over 200°C (max.)
- ③ The duration over $T_1^{\circ}\text{C}$
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

Case size: $\Phi 12.5$ – $\Phi 18$ mm:

- Temperature at surface of capacitor shall not exceed $T^{\circ}\text{C}$.
- The duration for over 200°C temperature and $T_1^{\circ}\text{C}$ at surface of capacitor shall not exceed t and t_1 seconds, respectively.
- Preheat shall be done at 100°C to 180°C and for Maximum 150 seconds.



Case size (mm)	$T(^{\circ}\text{C})$ ①	$T_1(^{\circ}\text{C})$	$t(\text{sec.})$ ②	$t_1(\text{sec.})$ ③	Reflow cycle
$\Phi 12.5$ – $\Phi 18$	240	230	60	30	1

- ① Peak temperature
- ② The duration over 200°C (max.)
- ③ The duration over $T_1^{\circ}\text{C}$
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

RS series

- High performance, high reliability
- Low impedance, high ripple current, long life
- Endurance: +105°C 4,000~10,000 hours
- RoHS Compliant



SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	-40~+105°C										
Rated Voltage Range	6.3~120 V _{dc}										
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)										
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater. Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)										
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	80	100	120
	tanδ (max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.08	0.12
When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)											
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage(V _{dc})	6.3	10	16	25	35	50	63	80	100	120
	Z(-25°C)/Z(+20°C)	4	3				2				3
	Z(-40°C)/Z(+20°C)	8	6	4			3				6
(at 120Hz)											
Endurance	The specifications listed below shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for a specified period of time at 105 °C.										
	Capacitance Change	≤±20% of the initial value (6.3, 10V: ≤±30%)					Dia.		Load life (hours)		
	D.F. (tanδ)	≤200% of the initial specified value					ØD ≤ 6.3		6.3~10V	16~120V	
	Leakage Current	≤The initial specified value					ØD = 8 & 10		4,000	5,000	
The following specifications shall be satisfied when the capacitors are restored to 20°C after leaving them under no load at 105°C for 1,000 hours.											
Shelf Life	Capacitance Change	≤±20% of the initial value (6.3, 10V: ≤±30%)					ØD ≥ 12.5		8,000	10,000	
	D.F. (tanδ)	≤200% of the initial specified value									
	Leakage Current	≤200% of the initial specified value									

DIMENSIONS [mm]



ØD	5	6.3	8	10	12.5	16	18
Ød	0.5	0.5	0.5	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ØD'	ØD+0.5max.						
L'	L+2max.						

PART NUMBERING SYSTEM



RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq.(Hz)	120	1k	10k	100k
Cap. < 220	0.40	0.75	0.90	1.00
220 ≤ Cap. < 680	0.50	0.85	0.94	1.00
680 ≤ Cap. < 2200	0.60	0.87	0.95	1.00
2200 ≤ Cap. < 4700	0.75	0.90	0.95	1.00
Cap. ≥ 4700	0.85	0.95	0.98	1.00

RS series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)
6.3(0J)	150	5*11	0.22	0.57	200
		6.3*9	0.22	0.74	180
	330	6.3*11	0.22	0.21	350
		8*9	0.22	0.27	310
	680	8*12	0.22	0.13	660
		10*9	0.22	0.17	590
	820	10*12.5	0.22	0.08	870
	1000	8*16	0.22	0.086	850
	1200	8*20	0.22	0.07	1050
		10*16	0.22	0.06	1230
	1500	10*20	0.22	0.046	1400
	1800	12.5*16	0.22	0.049	1450
	2200	10*20	0.24	0.042	1650
	2700	10*30	0.24	0.03	1920
		16*15	0.24	0.041	1950
	3300	12.5*20	0.26	0.035	1910
		12.5*25	0.26	0.026	2230
	4700	12.5*30	0.28	0.024	2650
	5600	12.5*35	0.30	0.02	2880
		16*20	0.30	0.027	2530
6800	12.5*40	0.32	0.017	3350	
	16*25	0.32	0.02	2930	
8200	18*20	0.32	0.026	2860	
	16*30	0.36	0.017	3450	
10000	16*35	0.40	0.015	3610	
	18*25	0.40	0.019	3140	
12000	16*40	0.44	0.013	4100	
	18*30	0.44	0.015	4170	
15000	18*35	0.50	0.014	4220	
18000	18*40	0.56	0.012	4300	
10(1A)	100	5*11	0.19	0.57	200
		6.3*9	0.19	0.74	180
	220	6.3*11	0.19	0.21	350
		8*9	0.19	0.27	310
	470	8*12	0.19	0.13	660
		10*9	0.19	0.17	590
	680	8*16	0.19	0.086	850
		10*12.5	0.19	0.08	870
	1000	8*20	0.19	0.069	1050
		10*16	0.19	0.06	1230
	1200	10*20	0.19	0.046	1400
		10*25	0.19	0.042	1650
	1500	12.5*16	0.19	0.049	1450
		10*30	0.21	0.03	1920
	2200	12.5*20	0.21	0.035	1910
		16*15	0.21	0.041	1950
	3300	12.5*25	0.23	0.026	2230
	3900	12.5*30	0.23	0.024	2650
		16*20	0.23	0.027	2530
	4700	12.5*35	0.25	0.02	2880
12.5*40		0.27	0.017	3350	
5600	16*25	0.27	0.021	2930	
	18*20	0.27	0.026	2860	
6800	16*30	0.29	0.017	3450	
	18*25	0.29	0.019	3140	
8200	16*35	0.33	0.015	3610	
	18*30	0.33	0.015	4170	
10000	16*40	0.37	0.013	4100	
	18*35	0.37	0.014	4220	
12000	18*40	0.41	0.012	4300	

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)
16(1C)	56	5*11	0.16	0.57	200
		6.3*9	0.16	0.74	180
	120	6.3*11	0.16	0.21	350
		8*9	0.16	0.27	310
	330	8*12	0.16	0.13	660
		10*9	0.16	0.17	590
	470	8*16	0.16	0.087	850
	680	10*12.5	0.16	0.08	870
		8*20	0.16	0.069	1050
	1000	10*16	0.16	0.06	1230
		10*20	0.16	0.046	1400
	1200	12.5*16	0.16	0.049	1450
		10*25	0.16	0.042	1650
	1500	10*30	0.16	0.031	1920
		12.5*20	0.16	0.035	1910
	2200	16*15	0.16	0.041	1950
		12.5*25	0.18	0.027	2230
	2700	12.5*30	0.18	0.024	2650
		16*20	0.18	0.027	2530
	3300	12.5*35	0.20	0.02	2880
12.5*40		0.20	0.017	3350	
3900	16*25	0.20	0.021	2930	
	18*20	0.20	0.026	2860	
4700	16*30	0.22	0.017	3450	
	18*25	0.22	0.019	3140	
5600	16*35	0.24	0.015	3610	
	18*30	0.24	0.015	4170	
6800	16*40	0.26	0.013	4100	
8200	18*35	0.30	0.014	4220	
10000	18*40	0.34	0.012	4300	
25(1E)	47	5*11	0.14	0.57	200
		6.3*9	0.14	0.74	180
	100	6.3*11	0.14	0.21	350
		8*9	0.14	0.27	310
	220	8*12	0.14	0.13	660
		10*9	0.14	0.17	590
	330	8*16	0.14	0.086	850
		10*12.5	0.14	0.08	870
	470	8*20	0.14	0.069	1050
		10*16	0.14	0.06	1230
	680	10*20	0.14	0.046	1400
		12.5*16	0.14	0.049	1450
	820	10*25	0.14	0.042	1650
		10*30	0.14	0.03	1920
	1000	12.5*20	0.14	0.035	1910
		16*15	0.14	0.041	1950
	1500	12.5*25	0.14	0.026	2230
	1800	12.5*30	0.14	0.024	2650
		16*20	0.14	0.027	2530
	2200	12.5*35	0.16	0.02	2880
18*20		0.16	0.026	2860	
2700	12.5*40	0.16	0.017	3350	
	16*25	0.16	0.021	2930	
3300	16*30	0.18	0.017	3450	
	18*25	0.18	0.019	3140	
3900	16*35	0.18	0.015	3610	
	18*30	0.18	0.015	4170	
4700	16*40	0.20	0.013	4100	
	18*35	0.20	0.014	4220	
5600	18*40	0.22	0.012	4300	

RS series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)
35(1V)	33	5*11	0.12	0.57	200
		6.3*9	0.12	0.74	180
	56	6.3*11	0.12	0.21	350
		8*9	0.12	0.27	310
	150	8*12	0.12	0.13	660
		10*9	0.12	0.17	590
	220	8*16	0.12	0.086	850
		10*12.5	0.12	0.08	870
	270	8*20	0.12	0.069	1050
	330	10*16	0.12	0.06	1230
	470	10*20	0.12	0.046	1400
		12.5*16	0.12	0.049	1450
	560	10*25	0.12	0.042	1650
		10*30	0.12	0.03	1920
	680	12.5*20	0.12	0.035	1910
		16*15	0.12	0.041	1950
	1000	12.5*25	0.12	0.026	2230
		12.5*30	0.12	0.024	2650
	1200	16*20	0.12	0.028	2247
		16*25	0.12	0.027	2530
	1500	12.5*35	0.12	0.02	2880
		12.5*40	0.12	0.017	3350
	1800	16*25	0.12	0.021	2930
		18*20	0.12	0.026	2860
	2200	16*30	0.14	0.017	3450
		18*25	0.14	0.019	3140
	2700	16*35	0.14	0.015	3610
		18*30	0.14	0.015	4170
3300	16*40	0.16	0.012	4100	
	18*35	0.16	0.014	4220	
3900	18*40	0.16	0.011	4300	
50(1H)	22	5*12	0.10	0.68	190
		6.3*9	0.10	0.89	170
	56	6.3*11	0.10	0.3	300
		8*9	0.10	0.39	270
	100	8*12	0.10	0.17	560
		10*9	0.10	0.22	500
	120	8*16	0.10	0.12	740
	150	10*12.5	0.10	0.12	760
	180	8*20	0.10	0.09	910
	220	10*16	0.10	0.084	1050
	270	10*20	0.10	0.058	1230
		12.5*16	0.10	0.061	1260
	330	10*25	0.10	0.055	1440
		10*30	0.10	0.043	1700
	470	12.5*20	0.10	0.045	1660
		16*15	0.10	0.055	1690
	560	12.5*25	0.10	0.034	1960
	680	12.5*30	0.10	0.03	2310
	820	12.5*35	0.10	0.025	2510
		16*20	0.10	0.034	2210
	1000	12.5*40	0.10	0.021	2920
		16*25	0.10	0.025	2560
	1200	18*20	0.10	0.036	2490
		16*30	0.10	0.021	3010
	1500	18*25	0.10	0.026	2740
		16*35	0.10	0.019	3150
	1800	16*40	0.10	0.016	3710
		18*30	0.10	0.021	3640
2200	18*35	0.12	0.017	3680	
2700	18*40	0.12	0.014	3800	

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)
63(1J)	15	5*11	0.09	0.88	165
		6.3*9	0.09	1.15	145
	33	6.3*12	0.09	0.35	265
		8*9	0.09	0.46	235
	56	8*12	0.09	0.22	500
		10*9	0.09	0.29	440
	82	8*16	0.09	0.16	665
		10*12.5	0.09	0.11	690
	120	8*20	0.09	0.12	820
		10*16	0.09	0.076	950
	180	10*20	0.09	0.056	1150
		12.5*16	0.09	0.072	1150
	220	10*25	0.09	0.046	1350
		10*30	0.09	0.041	1500
	330	12.5*20	0.09	0.031	1900
		12.5*25	0.09	0.028	2300
	470	12.5*30	0.09	0.032	2000
		16*20	0.09	0.024	2500
	560	12.5*35	0.09	0.021	2800
		12.5*40	0.09	0.025	2600
	680	16*25	0.09	0.03	2500
		18*20	0.09	0.021	2850
	820	16*30	0.09	0.024	2800
		18*25	0.09	0.019	2900
	1000	16*35	0.09	0.018	3400
		18*30	0.09	0.02	3300
	1500	18*35	0.09	0.018	3400
		18*40	0.09	0.017	3500
80(1B)	68	10*12.5	0.08	0.17	480
		10*16	0.08	0.11	600
	100	10*20	0.08	0.084	800
		10*25	0.08	0.069	900
	150	12.5*16	0.08	0.11	750
		12.5*20	0.08	0.062	1100
	220	12.5*25	0.08	0.047	1250
		16*20	0.08	0.048	1350
	330	12.5*30	0.08	0.042	1500
		12.5*35	0.08	0.036	1650
	470	16*25	0.08	0.038	1700
		18*20	0.08	0.045	1500
	560	12.5*40	0.08	0.032	1800
		16*30	0.08	0.032	1850
	680	18*25	0.08	0.036	1750
		16*35	0.08	0.029	2000
	820	18*30	0.08	0.03	1900
		16*40	0.08	0.027	2200
	1000	18*35	0.08	0.027	2200
		18*40	0.08	0.026	2700

Radial Type

RS series

■ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)
100(1K)	6.8	5*11	0.08	1.4	125
		6.3*9	0.08	1.9	110
	15	6.3*12	0.08	0.57	205
		8*9	0.08	0.75	180
	27	8*12	0.08	0.36	355
		10*9	0.08	0.45	310
	39	8*16	0.08	0.25	450
	47	10*12.5	0.08	0.17	480
	56	8*20	0.08	0.19	565
	68	10*16	0.08	0.11	600
	82	10*20	0.08	0.084	800
	100	12.5*16	0.08	0.11	750
	120	10*25	0.08	0.069	900
	150	12.5*20	0.08	0.062	1100
	220	12.5*25	0.08	0.047	1250
		16*20	0.08	0.048	1350
	270	12.5*30	0.08	0.042	1500
		12.5*35	0.08	0.036	1650
	330	16*25	0.08	0.038	1700
		18*20	0.08	0.045	1500
	390	12.5*40	0.08	0.032	1800
		16*30	0.08	0.032	1850
	470	18*25	0.08	0.036	1750
		16*35	0.08	0.029	2000
	560	18*30	0.08	0.03	1900
		16*40	0.08	0.027	2200
	680	18*35	0.08	0.027	2200
		18*40	0.08	0.026	2700

WV (V _{dc})	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω _{max} /20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)
120(2B)	10	6.3*11	0.12	6	85
	15	6.3*12	0.12	5	110
	18	8*9	0.12	4.5	125
	22	8*12	0.12	4	140
	33	8*16	0.12	3.5	245
		10*12.5	0.12	3.5	245
	47	8*20	0.12	2.8	300
		10*16	0.12	2.8	315
	56	10*16	0.12	2.5	315
	68	10*16	0.12	2.2	315
	82	10*20	0.12	2	330
	100	10*25	0.12	1.7	410
	120	12.5*20	0.12	1.5	470
	150	12.5*25	0.12	1.0	620
	220	13*30	0.12	0.85	760
		16*20	0.12	0.85	760
	270	16*25	0.12	0.6	860
		18*20	0.12	0.6	860
	330	16*30	0.12	0.46	930
		18*25	0.12	0.46	930
	470	16*40	0.12	0.33	1035
		18*30	0.12	0.33	1035

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