



#### **Features**

- For general purpose.
- · Wide CV value range.
- Safely vent construction products, RH series are guaranteed 2,000 hours at 105°C.

### **Specification Table**

Item							P	erfor	man	ce							
Operating Temperature Range		-4	₽0°C to	0+10	05°C							-25°C	C to	+105°	C		
Rated Working Voltage Range	6	3.3	V DC	- 10	0V D	C			160V DC - 450V DC								
Nominal Capacitance Range		0	).1 - 1	5,00	0μF							0.4	7 - 330µF				
Capacitance Tolerance						±20	)%	(at+2	0°С ,	120H	łz)						
	l≤0	0.0	1CV o	or 3( <sub> </sub>	μA) r	max					l≤0.	03CV	/ + :	20(μΑ	) ma	ЭX	
Leakage Current	Whicheve	er is	s grea	ter a	after	3 min	ute	S.		(	C: Ra	ted C	Сар	Curren acitan Volta	ce (	μF)	
Dissipation Factor(tanδ) (120Hz\+20°C)	Working Voltage tanδ max.  Add 0.02 per			10 0.19 F <b>fo</b> i	16 0.16 <b>mo</b> l		35 0.13 n <b>1</b> (	2 0.1	63	100 0.07	160 0.15	200 0.15	0.1		_	_	_
		Refer to standard products table(120Hz,+105°C) Correction factor for frequency															
	W.V.(V.DC)	Freq.(Hz)			60		120			1K		10K			100	)K	
		0.1-330		(	0.85		1			1.3		1.4			1.5	55	
Maximum Permissible	6.3~50	470-3300		00	(	0.95		1			1.15		1.2			1.25	
Ripple Current		≧4700		(	0.95		1			1.1			1.2		1.2		
			0.47-33		(	0.75		1			1.55	$\perp$		1.65		1.8	8
	63~100	47-220		0.75		$\downarrow$	1		<u> </u>	1.4			1.6	$\downarrow$	1.6	35	
		≧330		0.8			1		1.3			1.35		_	1.4		
	≧160		1-220	)		0.7		1			1.3			1.7		1.	7
	Working Voltage	V)	6.3	10	16	25	35	50	63	100	160	200	25	0 350	40	0 45	50
Characteristics of low	-25°C/+20°C		4	3	2	2	2	2	2	2	3	3	3	6	6	1:	5
Characteristics at low temperature (stability at 120 Hz)	-40°C/+20°C		8	6	4	3	3	3	3	3							
temperature (etabliky at 120 112)	For capacita	nc	e valu	e >1	1000									25°C /- 0°C/+2			
	After 2000hr The capacito Post test req	or s uir	shall m	neet	the t	follow I°C.	ing	limits	: 			·105°	C,				
High Temperature Loading	Leakage cu				_	≤ the											
	Capacitanc				_	≤±20											
	Dissipation	Fa	actor(ta	anδ)	)	≤200	% c	f initi	al spe	ecifie	d val	ue					



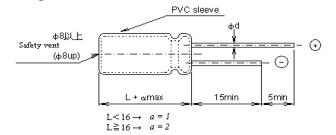


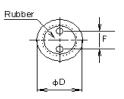
Item		Performance
Shelf Li	fe	After storage for 500hrs. at +105°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading.

#### **Permissible Ripple Current**

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $													,		). ( <u>_</u> 0, i_)
0.22         8         8         8         8         8         9         9         10           0.33         1         1         7         8         8         8         8         9         9         10           0.47         1         1         1         8         10         9         9         9         10         9         18           1.0         1         1         12         15         12         12         12         18         18         18           2.2         1         1         1         17         23         19         19         21         30         30         30           3.3         1         1         26         28         30         32         34         31         36         36         48         52         56           10         35         38         41         46         50         56         59         59         64         79         79         79         79         79         79         79         79         79         79         79         79         79         79         79         79         79         79															
0.33	0.1						7		8	8	8	8	9	9	10
0.47	0.22						7		8	8	8	8	9	9	10
1.0         Image: color of the color	0.33						7		8	8	8	8	9	9	10
2.2         Image: color of the color	0.47						8		10	9	9	9	10	9	18
3.3         4.7         26         26         28         30         32         34         31         36         36         48         52         56           10         35         38         41         46         50         56         59         59         64         79         79         79         79           22         49         54         57         61         68         82         96         95         95         110         130         145         150           33         54         60         64         69         75         90         100         140         125         140         140         175         185         190           47         65         70         99         82         100         110         135         180         165         165         180         230         230         230           100         95         105         125         135         170         180         223         320         270         285         310         350           220         160         175         215         230         300         345         400         570 </td <td>1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> <td></td> <td>15</td> <td>12</td> <td>12</td> <td>12</td> <td>18</td> <td>18</td> <td>18</td>	1.0						12		15	12	12	12	18	18	18
4.7	2.2						17		23	19	19	21	30	30	30
10         35         38         41         46         50         56         59         59         64         79         79         79           22         49         54         57         61         68         82         96         95         95         110         130         145         150           33         54         60         64         69         75         90         100         140         125         140         140         175         185         190           47         65         70         99         82         100         110         135         180         165         165         180         230         230         230           100         95         105         125         135         170         180         223         320         270         285         310         350         350         350         400         460         570         450         550         550         550         550         550         550         550         550         550         550         550         550         550         550         660         770         920         1080         1210 <td>3.3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>21</td> <td></td> <td>29</td> <td>26</td> <td>26</td> <td>30</td> <td>37</td> <td>40</td> <td>43</td>	3.3						21		29	26	26	30	37	40	43
22         49         54         57         61         68         82         96         95         95         110         130         145         150           33         54         60         64         69         75         90         100         140         125         140         140         175         185         190           47         65         70         99         82         100         110         135         180         165         165         180         230         230           100         95         105         125         135         170         180         223         320         270         285         310         350	4.7				26	28	30	32	34	31	36	36	48	52	56
33         54         60         64         69         75         90         100         140         125         140         140         175         185         190           47         65         70         99         82         100         110         135         180         165         165         180         230         230           100         95         105         125         135         170         180         223         320         270         285         310         350           220         160         175         215         230         300         345         400         570         450         550 </td <td>10</td> <td></td> <td></td> <td>35</td> <td>38</td> <td>41</td> <td>46</td> <td>50</td> <td>56</td> <td>59</td> <td>59</td> <td>64</td> <td>79</td> <td>79</td> <td>79</td>	10			35	38	41	46	50	56	59	59	64	79	79	79
47         65         70         99         82         100         110         135         180         165         165         180         230         230           100         95         105         125         135         170         180         223         320         270         285         310         350           220         160         175         215         230         300         345         400         570         450         550         550           330         195         245         260         335         400         460         540         700         850         550         550           470         270         290         370         440         520         610         700         880         50	22		49	54	57	61	68	82	96	95	95	110	130	145	150
100         95         105         125         135         170         180         223         320         270         285         310         350           220         160         175         215         230         300         345         400         570         450         550         550           330         195         245         260         335         400         460         540         700         850         550         640         770         920         610         700         880         550         680         550         640         770         920         1080         1210         550         550         640         770         920         1080         1210         550         550         640         770         920         1080         1210         550         550         640         770         920         1080         1210         550         550         550         640         1770         1340         1530         1530         1500         1100         1300         1460         1650         1850         1850         1850         1850         1850         1850         1850         1850         1850         1850 <td>33</td> <td>54</td> <td>60</td> <td>64</td> <td>69</td> <td>75</td> <td>90</td> <td>100</td> <td>140</td> <td>125</td> <td>140</td> <td>140</td> <td>175</td> <td>185</td> <td>190</td>	33	54	60	64	69	75	90	100	140	125	140	140	175	185	190
220       160       175       215       230       300       345       400       570       450       550       9	47	65	70	99	82	100	110	135	180	165	165	180	230	230	
330     195     245     260     335     400     460     540     700     850     950       470     270     290     370     440     520     610     700     880     980     980       1,000     460     550     640     770     920     1080     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     1210     920     920     1210     920     920     1210     920     920     1210     920     920     920     1210     920     920     920     920     1210     920 <td>100</td> <td>95</td> <td>105</td> <td>125</td> <td>135</td> <td>170</td> <td>180</td> <td>223</td> <td>320</td> <td>270</td> <td>285</td> <td>310</td> <td>350</td> <td></td> <td></td>	100	95	105	125	135	170	180	223	320	270	285	310	350		
470         270         290         370         440         520         610         700         880 <td>220</td> <td>160</td> <td>175</td> <td>215</td> <td>230</td> <td>300</td> <td>345</td> <td>400</td> <td>570</td> <td>450</td> <td>550</td> <td></td> <td></td> <td></td> <td></td>	220	160	175	215	230	300	345	400	570	450	550				
680       750       1,000       460       550       640       770       920       1080       1210       1	330	195	245	260	335	400	460	540	700	850					
1,000     460     550     640     770     920     1080     1210        2,200     810     860     1000     1170     1340     1530        3,300     960     1100     1300     1460     1650     1850       4,700     1330     1400     1600     1780     1900       6,800     1500     1690     1900     1950       10,000     1765     1950     2000	470	270	290	370	440	520	610	700	880						
2,200     810     860     1000     1170     1340     1530       3,300     960     1100     1300     1460     1650     1850       4,700     1330     1400     1600     1780     1900       6,800     1500     1690     1900     1950       10,000     1765     1950     2000     1950	680					750									
3,300     960     1100     1300     1460     1650     1850       4,700     1330     1400     1600     1780     1900       6,800     1500     1690     1900     1950       10,000     1765     1950     2000     1950	1,000	460	550	640	770	920	1080	1210							
4,700     1330     1400     1600     1780     1900       6,800     1500     1690     1900     1950       10,000     1765     1950     2000     1950	2,200	810	860	1000	1170	1340	1530								
6,800 1500 1690 1900 1950	3,300	960	1100	1300	1460	1650	1850								
10,000 1765 1950 2000	4,700	1330	1400	1600	1780	1900									
	6,800	1500	1690	1900	1950										
15,000 2075 2100	10,000	1765	1950	2000											
	15,000	2075	2100												

### **Diagram of Dimensions**





Dø (+ 0.5Max )	5	6.3	8	10	13	16	18	22
F (±0.5)	2	2.5	3.5	5	5	7.5	7.5	10
dø (±0.02)	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8

Dimensions: Millimetres





Case Size Table D×L(mm)

								D^L(IIIIII
W.V. (SV) µF	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)
0.1					$\rightarrow$	5×11	5×11	5×11
0.22					$\rightarrow$	5×11	5×11	5×11
0.33					$\rightarrow$	5×11	5×11	5×11
0.47					$\rightarrow$	5×11	5×11	5×11
1.0					$\rightarrow$	5×11	5×11	5×11
2.2					$\rightarrow$	5×11	5×11	5×11
3.3					$\rightarrow$	5×11	5×11	5×11
4.7					$\rightarrow$	5×11	5×11	5×11
10			$\rightarrow$	5×11	5×11	5×11	5×11	6.3×11
22			$\rightarrow$	5×11	5×11	5×11	6.3×11	8×11
33		$\rightarrow$	5×11	5×11	5×11	6.3×11	6.3×11	8×11
47	$\rightarrow$	5×11	5×11	5×11	6.3×11	6.3×11	8×11	10×16
100	$\rightarrow$	5×11	6.3×11	6.3×11	8×11	8×11	10×13	13×21
220	$\rightarrow$	6.3×11	8×11	8×11	10×13	10×16	10×21	16×26
330	6.3×11	8×11	8×11	10×13	10×16	10×20	13×21	16×26
470	8×11	8×11	10×13	10×16	10×21	13×21	13×26	16×26
680					13×21			
1,000	10×13	10×16	10×21	13×21	13×21	16×26	16×32	
2,200	10×21	13×21	13×21	13×26	16×32	18×36		
3,300	13×21	13×21	13×26	16×32	18×36	18×42		
4,700	13×26	16×26	16×32	16×36	18×36			
6,800	16×26	16×32	18×36	18×42				
10000	16×32	18×36	18×42					
15000	18×36	18×42						

All blank voltage on sleeve marking is the same voltage as " $\rightarrow$ " point to.

Case Size Table D×L(mm)

WW(SV) μF	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
0.47	6.3×11	6.3×11	6.3×11	8×11	8×11	8×11
1.0	6.3×1	6.3×11	6.3×11	8×11	8×11	10×16
2.2	6.3×11	6.3×11	6.3×11	8×11	10×13	10×21
3.3	6.3×11	6.3×11	8×11	10×13	10×13	13×21
4.7	6.3×11	8×11	8×11	10×13	10×16	13×21
10	8×11	10×13	10×16	10×21	13×21	16×26
22	10×16	10×21	13×21	13×26	13×26	16×32





WW(SV) μF	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
33	10×21	13×21	13×21	16×26	16×32	18×32
47	13×21	13×21	13×26	16×36	18×36	
100	13×26	16×26	16×32	18×42		
220	16×36	18×42				
330	18×42					

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