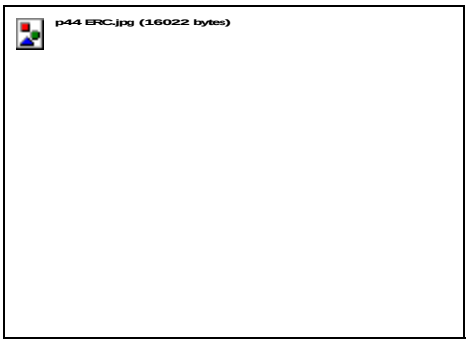
RH series general purpose 105ºC



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

specifications

No.	Item	Performance	
1	Operating Temperature Range	-40 to + 105º c	-25 to + 105º c
2	Rated Working Voltage Range	6.3 - 100v.DC	160 - 450v.DC
3	Nominal Capacitance Range	0.1 - 15000µ F	0.47 - 330µ F
4	Capacitance Tolerance	± 20% (at + 20º c ,120Hz)	
5	Leakage Current	I £ 0.01CV or 3(µ A) max	I £ 0.03CV + 20(µ A) max
		Whichever is greater after 3 minutes.	I :Leakage Current (µ A) C:Rated Capacitance (µ F) V:Working Voltage(v)
6	Dissipation Factor (tan□) (120Hz\ + 20º c)		

Working Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
tan□ max	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.07	0.15	0.15	0.15	0.20	0.24	0.24

Add 0.02 per 1000 µ F for more than 1000µ F.

7 Maximum Permissible Ripple Current

Refer to standard products table(120Hz, + 105º c)
Correction factor for frequency.

Freq.(Hz) / W. V. (V. DC.)		60	120	1K	10K	100K
6.3-50	0.1-330	0.85	1	1.30	1.40	1.55
	470-3300	0.95	1	1.15	1.20	1.25
	□4700	0.95	1	1.10	1.20	1.20
63-100	0.47-33	0.75	1	1.55	1.65	1.80
	47-220	0.75	1	1.40	1.60	1.65
	□330	0.80	1	1.30	1.35	1.40
□160	1-220	0.70	1	1.30	1.70	1.70

8 Characteristics at low temperature (stability at 120 Hz)

For

Working Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
-25º c/+25º c	4	3	2	2	2	2	2	2	3	3	3	6	6	15
-40º c/+20º c	8	6	4	3	3	3	3	3	-	-	-	-	-	-

capacitance value > 1000 µ F, Add 0.5 per another 1000 µ F for -25º c/ + 25º c.
Add 1.0 per another 1000µ F for -40º c/ + 20º c.

RH series general purpose 105°C

specifications

No.	Item	Performance
9	High Temperature Loading	After 2000hrs. application of DC rated working voltage at +105° c, The capacitor shall meet the following limits: Post test requirements at +20° c. Leakage current: ≤ the initial specified value Capacitance change: ≤ ±20% of initial measured value Dissipation Factor(tan□): ≤200% of initial specified value
10	Shelf Life	After storage for 500hrs. at +105° c with no voltage applied. Post test requirements at +20° c same limits as high temperature loading.

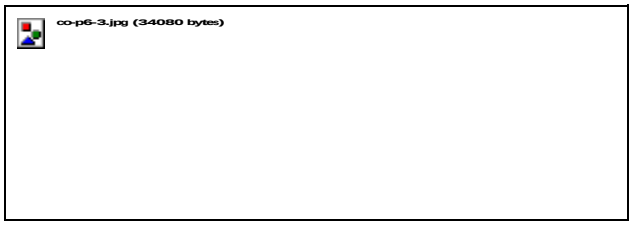
Permissible Ripple Current Max ripple current: mA (rms) (at 105°c. 120Hz)

W.V(SV) / μ F	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)	450 (500)
0.1	---	---	---	---	---	7	---	8	8	8	8	9	9	10
0.22	---	---	---	---	---	7	---	8	8	8	8	9	9	10
0.33	---	---	---	---	---	7	---	8	8	8	8	9	9	10
0.47	---	---	---	---	---	8	---	10	9	9	9	10	9	18
1.0	---	---	---	---	---	12	---	15	12	12	12	18	18	18
2.2	---	---	---	---	---	17	---	23	19	19	21	30	30	30
3.3	---	---	---	---	---	21	---	29	26	26	30	37	40	43
4.7	---	---	---	26	28	30	32	34	31	36	36	48	52	56
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	150	185	240	230
47	65	70	99	82	100	110	135	180	180	190	230	310	310	---
100	95	105	125	135	170	180	223	320	270	285	310	350	396	---
220	160	175	215	230	300	345	400	570	450	550	---	---	---	---
330	195	245	260	335	400	460	540	700	850	---	---	---	---	---
470	270	290	370	440	520	610	700	880	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---
15,000	2075	2100	---	---	---	---	---	---	---	---	---	---	---	---

RH series

general purpose 105°C

Diagram of Dimensions



Case Size Table øD x L(mm)

W.V. (SV)	6.3	10	16	25	35	50	63	100
µ F	(8)	(13)	(20)	(32)	(44)	(63)	(79)	(125)
0.1	---	---	---	---	→	5 X 11	5 X 11	5 X 11
0.22	---	---	---	---	→	5 X 11	5 X 11	5 X 11
0.33	---	---	---	---	→	5 X 11	5 X 11	5 X 11
0.47	---	---	---	---	→	5 X 11	5 X 11	5 X 11
1.0	---	---	---	---	→	5 X 11	5 X 11	5 X 11
2.2	---	---	---	---	→	5 X 11	5 X 11	5 X 11
3.3	---	---	---	---	→	5 X 11	5 X 11	5 X 11
4.7	---	---	---	5 X 11	5 X 11	5 X 11	5 X 11	5 X 11
10	---	---	5 X 11	5 X 11	5 X 11	5 X 11	5 X 11	6.3 X 11
22	---	5 X 11	5 X 11	5 X 11	5 X 11	5 X 11	6.3 X 11	8 X 11
33	5 X 11	5 X 11	5 X 11	5 X 11	5 X 11	6.3 X 11	6.3 X 11	10 X 13
47	5 X 11	5 X 11	5 X 11	5 X 11	6.3 X 11	6.3 X 11	8 X 11	10 X 16
100	5 X 11	5 X 11	6.3 X 11	6.3 X 11	6.3 X 11	8 X 11	10 X 13	10 X 21
220	6.3 X 11	6.3 X 11	6.3 X 11	8 X 11	8 X 13	10 X 16	10 X 21	16 X 26
330	6.3 X 11	8 X 11	8 X 11	10 X 13	10 X 13	10 X 21	13 X 21	16 X 26
470	8 X 11	8 X 11	8 X 11	10 X 16	10 X 16	13 X 21	13 X 25	16 X 32
1,000	10 X 13	10 X 12	10 X 21	10 X 21	10 X 21	13 X 25	16 X 32	---
2,200	10 X 21	13 X 21	13 X 21	13 X 26	16 X 32	18 X 36	---	---
3,300	13 X 21	13 X 21	13 X 26	16 X 26	18 X 36	18 X 42	---	---
4,700	13 X 26	16 X 26	16 X 32	16 X 32	18 X 42	---	---	---
6,800	16 X 25	16 X 30	18 X 30	18 X 36	---	---	---	---
10000	16 X 25	18 X 30	18 X 42	---	---	---	---	---
15000	18 X 36	18 X 42	---	---	---	---	---	---

I All blank voltage on sleeve marking is the same voltage as " → " point to.

Case Size Table øD x L(mm)

WW (SV)	160	200	250	350	400	450
µ F	(200)	(250)	(300)	(400)	(450)	(500)
0.47	6.3 X 11	6.3 X 11	6.3 X 11	8 X 11	8 X 11	8 X 11
1.0	6.3 X 11	6.3 X 11	6.3 X 11	8 X 11	8 X 11	10 X 16
2.2	6.3 X 11	6.3 X 11	6.3 X 11	8 X 11	10 X 13	10 X 21
3.3	6.3 X 11	6.3 X 11	8 X 11	10 X 13	10 X 13	13 X 21
4.7	6.3 X 11	8 X 11	8 X 11	10 X 13	10 X 16	13 X 21
10	8 X 11	10 X 13	10 X 16	10 X 21	13 X 21	16 X 26
22	10 X 16	10 X 21	13 X 21	13 X 26	13 X 26	16 X 32
33	10 X 21	13 X 21	13 X 21	16 X 25	16 X 20	18 X 32
47	13 X 21	13 X 21	13 X 26	16 X 25	16 X 25	---
100	13 X 26	16 X 26	16 X 32	16 X 25	18 X 35.5	---
220	16 X 36	18 X 42	---	---	---	---
330	18 X 42	---	---	---	---	---