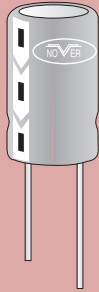


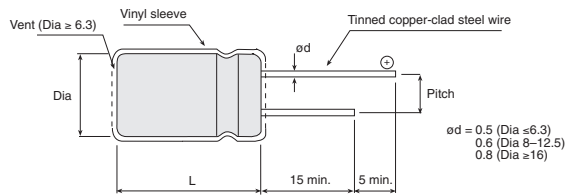
NOVER type RH/RT

A range of radial aluminium electrolytic capacitors with an extended upper temperature limit of 105°C. Ideal for equipment running at a high ambient where a greater temperature safety margin and thus improved reliability is required. Endurance test 2000 hours at 105°C except for 400V RT series parts which are 3000 hours at 105°C. The most popular values are listed below and continued on the following page with other values and voltages being available to order. Supplied loose or taped and boxed.



- ◆ High temperature
- ◆ Longer life
- ◆ Endurance **2000/3000 hours at 105°C**
- ◆ Solvent resistant
- ◆ Capacitance tolerance **20%**
- ◆ Leakage current **≤0.01CV**
- ◆ Body colour **Light Green/Purple**
- ◆ Supplied loose or taped & boxed

Dimensions (mm)



Dia x L are can sizes only. To allow for sleeve add 0.5 to Dia and 1.0 to L (2.0 L ≥ 20)

ORDER CODES

Value (µF)	Ripple Current (mA)	Dia. x L (mm)	Pitch (mm)	Loose	Taped & Boxed
6.3 Volt					
33	105	5.0 x 11.0	2.0(5)	052308	052308T
47	120	5.0 x 11.0	2.0(5)	052309	052309T
100	130	5.0 x 11.0	2.0(5)	052310	052310T
220	180	6.3 x 11.0	2.5(5)	052311	052311T
330	220	8.0 x 11.5	3.5(5)	052312	052312T
470	315	8.0 x 11.5	3.5(5)	052313	052313T
1000	500	10.0 x 12.5	5.0	052314	052314T
2200	1000	12.5 x 20.0	5.0	052315	052315T
3300	1050	12.5 x 25.0	5.0	052316	052316T
4700	1670	16.0 x 25.0	7.5	052317	052317T
6800	1740	16.0 x 31.5	7.5	052318	-
10000	2110	16.0 x 31.5	7.5	052719	-
10000	2110	18.0 x 35.5	7.5	052319	-
10 Volt					
22	92	5.0 x 11.0	2.0(5)	052007	052007T
33	105	5.0 x 11.0	2.0(5)	052008	052008T
47	120	5.0 x 11.0	2.0(5)	052009	052009T
100	130	5.0 x 11.0	2.0(5)	052010	052010T
220	220	6.3 x 11.0	2.5(5)	052011	052011T
330	265	8.0 x 11.5	3.5(5)	052412	052412T
330	265	10.0 x 12.5	5.0	052012	052012T
470	315	10.0 x 12.5	5.0	052013	052013T
1000	615	10.0 x 16.0	5.0	052414	052414T
2200	1050	12.5 x 20.0	5.0	052015	052015T
3300	1300	16.0 x 25.0	7.5	052215	052215T
4700	1740	16.0 x 31.5	7.5	052216	-
6800	2110	18.0 x 35.5	7.5	052217	-
16 Volt					
10	92	5.0 x 11.0	2.0(5)	052016	052016T
22	105	5.0 x 11.0	2.0(5)	052017	052017T
33	120	5.0 x 11.0	2.0(5)	052018	052018T
47	130	5.0 x 11.0	2.0(5)	052019	052019T
100	220	6.3 x 11.0	2.5(5)	052020	052020T
220	290	8.0 x 11.5	3.5(5)	052021	052021T
330	315	8.0 x 11.5	3.5(5)	052422	052422T
330	315	10.0 x 12.5	5.0	052022	052022T
470	315	10.0 x 12.5	5.0	052023	052023T
1000	825	10.0 x 20.0	5.0	052024	052024T
2200	1300	12.5 x 25.0	5.0	052025	052025T
3300	1740	16.0 x 25.0	7.5	052225	052225T
4700	2110	16.0 x 31.5	7.5	052226	-
25 Volt					
10	92	5.0 x 11.0	2.0(5)	052026	052026T
22	105	5.0 x 11.0	2.0(5)	052027	052027T
33	120	5.0 x 11.0	2.0(5)	052028	052028T
47	130	6.3 x 11.0	2.5(5)	052029	052029T
100	220	6.3 x 11.0	2.5(5)	052430	052430T
100	220	8.0 x 11.5	3.5(5)	052030	052030T
220	315	8.0 x 11.5	3.5(5)	052431	052431T
220	315	10.0 x 12.5	5.0	052031	052031T
330	500	10.0 x 12.5	5.0	052032	052032T
470	615	10.0 x 16.0	5.0	052033	052033T
1000	1050	12.5 x 20.0	5.0	052034	052034T
2200	1740	16.0 x 25.0	7.5	052035	052035T
3300	2110	16.0 x 31.5	7.5	052235	-

Specification Conforms to JIS C5141-1982 Char.W

RH/RT

Endurance test	2000 hours at 105°C (400V RT series: 3000 hours at 105°C)
Capacitance tolerance	±20% at 120Hz, 20°C
Ripple current (as listed)	measured at 100kHz, 105°C (400V: 120Hz, 105°C) (see also multiplier table below)
Operating temperature range	-40°C to +105°C
Leakage current	≤0.01CV or 3µA (whichever is greater) after 2 min.

Dissipation factor (120Hz, 20°C)

Rated voltage	6.3V	10V	16V	25V	35V	50V	63V	100V	400V	dc
Tan δ (max.)*	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.08	0.25 [†]	

*Add 0.02 for every 1000µF above 1000µF

[†]RT series 0.20

Surge voltage capability

Rated voltage	6.3V	10V	16V	25V	35V	50V	63V	100V	400V	dc
Surge voltage	8V	13V	20V	32V	44V	63V	79V	125V	450V	dc

Multiplier for ripple current

Frequency coefficient						
Rated Voltage (V)	Freq (Hz)	Cap (µF)				
		50	120	1k	10k	100k
6.3 ~ 100	0.1 ~ 4.7	-	0.4	0.7	0.8	1.0
	10 ~ 47	-	0.5	0.8	0.9	1.0
	100 ~ 220	-	0.7	0.9	0.9	1.0
	330 ~ 1000	-	0.8	0.9	1.0	1.0
2200 ~ 10000	-	0.9	1.0	1.0	1.0	1.0
400	3.3 ~ 47	0.8	1.0	1.3	1.4	1.6
Temperature coefficient						
Rated Voltage (V)	Temperature (°C)					
		+70	+85	+105		
6.3 ~ 100		2.0	1.7	1.0		
400		1.8	1.4	1.0		

continued > > >



continuation

ORDER CODES

Value (µF)	Ripple Current (mA)	Dia. x L (mm)	Pitch (mm)	Loose	Taped & Boxed	Value (µF)	Ripple Current (mA)	Dia. x L (mm)	Pitch (mm)	Loose	Taped & Boxed
35 Volt						100 Volt					
4.7	92	5.0 x 11.0	2.0(5)	052236	052236T	0.47	30	5.0 x 11.0	2.0(5)	052072	052072T
10	105	5.0 x 11.0	2.0(5)	052037	052037T	1.0	45	5.0 x 11.0	2.0(5)	052073	052073T
22	120	5.0 x 11.0	2.0(5)	052038	052038T	2.2	60	5.0 x 11.0	2.0(5)	052074	052074T
33	130	6.3 x 11.0	2.5(5)	052039	052039T	3.3	67	5.0 x 11.0	2.0(5)	052075	052075T
47	220	6.3 x 11.0	2.5(5)	052040	052040T	4.7	75	5.0 x 11.0	2.0(5)	052076	052076T
100	315	8.0 x 11.5	3.5(5)	052041	052041T	10	110	6.3 x 11.0	2.5(5)	052077	052077T
220	500	10.0 x 12.5	5.0	052042	052042T	22	165	8.0 x 11.5	3.5(5)	052078	052078T
330	615	10.0 x 16.0	5.0	052043	052043T	33	305	10.0 x 12.5	5.0	052079	052079T
470	825	10.0 x 20.0	5.0	052044	052044T	47	320	10.0 x 16.0	5.0	052080	052080T
1000	1300	12.5 x 25.0	5.0	052445	052445T	100	585	12.5 x 20.0	5.0	052081	052081T
1000	1300	16.0 x 25.0	7.5	052045	052045T	220	1120	16.0 x 25.0	7.5	052082	052082T
2200	2110	16.0 x 31.5	7.5	052046	-	330	1290	16.0 x 25.0	7.5	052083	052083T
50 Volt						400 Volt					
0.1	10	5.0 x 11.0	2.0(5)	052112	052112T	3.3	29	8.0 x 11.5	3.5(5)	052148	052148T
0.22	15	5.0 x 11.0	2.0(5)	052113	052113T	4.7	36	8.0 x 11.5	3.5(5)	052149	052149T
0.33	18	5.0 x 11.0	2.0(5)	052114	052114T	10	62	10.0 x 16.0	5.0	052150	052150T
0.47	23	5.0 x 11.0	2.0(5)	052115	052115T	22	132	12.5 x 20.0	5.0	052151	052151T
1.0	35	5.0 x 11.0	2.0(5)	052048	052048T	33	174	12.5 x 25.0	5.0	052152	052152T
2.2	53	5.0 x 11.0	2.0(5)	052049	052049T	47	212	16.0 x 25.0	7.5	052153	052153T
3.3	65	5.0 x 11.0	2.0(5)	052116	052116T	400 Volt 3000 hour endurance at 105°C (RT series)					
4.7	82	5.0 x 11.0	2.0(5)	052050	052050T	4.7	52	10.0 x 16.0	5.0	052250	052250T
10	100	5.0 x 11.0	2.0(5)	052051	052051T	10	79	10.0 x 20.0	5.0	052251	052251T
22	125	6.3 x 11.0	2.5(5)	052052	052052T	22	140	12.5 x 25.0	5.0	052252	052252T
33	195	6.3 x 11.0	2.5(5)	052053	052053T	33	186	16.0 x 25.0	7.5	052253	052253T
47	245	6.3 x 11.0	2.5(5)	052054	052054T	47	238	16.0 x 31.5	7.5	052254	-
100	385	8.0 x 11.5	3.5(5)	052055	052055T						
220	505	10.0 x 16.0	5.0	052056	052056T						
330	675	12.5 x 20.0	5.0	052057	052057T						
470	895	12.5 x 20.0	5.0	052058	052058T						
1000	1495	16.0 x 25.0	7.5	052059	052059T						
63 Volt											
0.1	10	5.0 x 11.0	2.0(5)	052117	052117T						
0.22	15	5.0 x 11.0	2.0(5)	052118	052118T						
0.33	18	5.0 x 11.0	2.0(5)	052119	052119T						
0.47	23	5.0 x 11.0	2.0(5)	052060	052060T						
1.0	35	5.0 x 11.0	2.0(5)	052061	052061T						
2.2	53	5.0 x 11.0	2.0(5)	052062	052062T						
3.3	65	5.0 x 11.0	2.0(5)	052063	052063T						
4.7	74	5.0 x 11.0	2.0(5)	052064	052064T						
10	95	5.0 x 11.0	2.0(5)	052465	052465T						
10	95	6.3 x 11.0	2.5(5)	052065	052065T						
22	130	8.0 x 11.5	3.5(5)	052066	052066T						
33	160	8.0 x 11.5	3.5(5)	052067	052067T						
47	305	8.0 x 11.5	3.5(5)	052068	052068T						
100	395	10.0 x 12.5	5.0	052069	052069T						
220	505	10.0 x 20.0	5.0	052070	052070T						
330	660	12.5 x 25.0	5.0	052071	052071T						
470	850	12.5 x 25.0	5.0	052520	052520T						
470	1250	16.0 x 25.0	7.5	052120	052120T						

(5) Leads pre-formed to 5mm pitch on taped part

Other values and higher voltages are available to order. Please contact our Sales Desk for details.