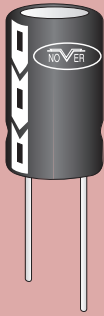


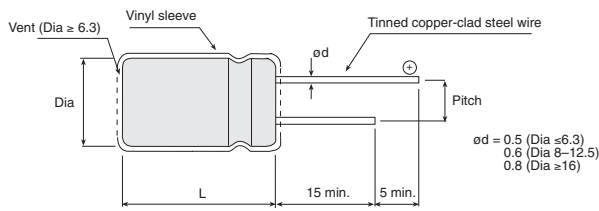
NOVER type RE

Radial lead aluminium electrolytic capacitors manufactured to be highly cost effective whilst maintaining high levels of quality and reliability. Offer longer life with an endurance test of 2000 hours at 85°C. The most popular values are listed below and continued on the following page with other values and higher voltages being available to order. Supplied loose or taped and boxed.



- ◆ **Standard range**
- ◆ **Longer life**
- ◆ **Endurance 2000 hours at 85°C**
- ◆ **Solvent resistant**
- ◆ **Very competitively priced**
- ◆ **Capacitance tolerance 20%**
- ◆ **Leakage current ≤0.01CV**
- ◆ **Body colour Black**
- ◆ **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 \geq 20)

ORDER CODES

Value (μ F)	Ripple Current (mA)	Dia. x L (mm)	Pitch (mm)	Loose	Taped & Boxed
6.3 Volt					
33	70	5.0 x 11.0	2.0(5)	053308	053308T
47	75	5.0 x 11.0	2.0(5)	053309	053309T
100	100	5.0 x 11.0	2.0(5)	053310	053310T
220	170	6.3 x 11.0	2.5(5)	053311	053311T
330	210	6.3 x 11.0	2.5(5)	053312	053312T
470	300	8.0 x 11.5	3.5(5)	053313	053313T
1000	530	10.0 x 12.5	5.0	053314	053314T
2200	990	12.5 x 20.0	5.0	053315	053315T
3300	1150	12.5 x 20.0	5.0	053316	053316T
4700	1700	16.0 x 25.0	7.5	053317	053317T
6800	1900	16.0 x 25.0	7.5	053318	053318T
10000	2250	16.0 x 31.5	7.5	053319	-
15000	2400	18.0 x 35.5	7.5	053320	-
10 Volt					
22	55	5.0 x 11.0	2.0(5)	053007	053007T
33	70	5.0 x 11.0	2.0(5)	053008	053008T
47	75	5.0 x 11.0	2.0(5)	053009	053009T
100	110	5.0 x 11.0	2.0(5)	053010	053010T
220	190	6.3 x 11.0	2.5(5)	053011	053011T
330	270	8.0 x 11.5	3.5(5)	053012	053012T
470	330	8.0 x 11.5	3.5(5)	053013	053013T
1000	620	10.0 x 16.0	5.0	053014	053014T
2200	1050	12.5 x 20.0	5.0	053015	053015T
3300	1350	12.5 x 25.0	5.0	053215	053215T
4700	1800	16.0 x 25.0	7.5	053216	053216T
6800	2200	16.0 x 31.5	7.5	053217	-
10000	2750	18.0 x 35.5	7.5	053218	-
16 Volt					
10	40	5.0 x 11.0	2.0(5)	053016	053016T
22	55	5.0 x 11.0	2.0(5)	053017	053017T
33	70	5.0 x 11.0	2.0(5)	053018	053018T
47	80	5.0 x 11.0	2.0(5)	053019	053019T
100	140	6.3 x 11.0	2.5(5)	053020	053020T
220	220	6.3 x 11.0	2.5(5)	053421	053421T
220	240	8.0 x 11.5	3.5(5)	053021	053021T
330	300	8.0 x 11.5	3.5(5)	053022	053022T
470	400	8.0 x 11.5	3.5(5)	053423	053423T
470	420	10.0 x 12.5	5.0	053023	053023T
1000	720	10.0 x 16.0	5.0	053424	053424T
1000	740	10.0 x 20.0	5.0	053024	053024T
2200	1200	12.5 x 25.0	5.0	053025	053025T
3300	1650	16.0 x 25.0	7.5	053225	053225T
4700	2100	16.0 x 31.5	7.5	053226	-
6800	2600	18.0 x 35.5	7.5	053227	-
25 Volt					
4.7	25	5.0 x 11.0	2.0(5)	053234	053234T
10	45	5.0 x 11.0	2.0(5)	053026	053026T
22	60	5.0 x 11.0	2.0(5)	053027	053027T
33	70	5.0 x 11.0	2.0(5)	053028	053028T
47	90	5.0 x 11.0	2.0(5)	053029	053029T
100	150	6.3 x 11.0	2.5(5)	053030	053030T
220	260	8.0 x 11.5	3.5(5)	053031	053031T
330	380	10.0 x 12.5	5.0	053032	053032T
470	500	10.0 x 16.0	5.0	053033	053033T
1000	910	12.5 x 20.0	5.0	053034	053034T
2200	1400	12.5 x 25.0	5.0	053435	053435T
2200	1500	16.0 x 25.0	7.5	053035	053035T
3300	1900	16.0 x 31.5	7.5	053235	-
4700	2450	18.0 x 35.5	7.5	053036	-

Specification

Conforms to JIS C5141-1982 Char.W

RE

Endurance test	2000 hours at 85°C
Capacitance tolerance	±20% at 120Hz, 20°C
Ripple current (as listed)	measured at 120Hz, 85°C (see also multiplier table below)
Operating temperature range	-40°C to +85°C
Leakage current	6.3 ~ 100V ≤0.01CV or 3μA 250 ~ 450V ≤0.06CV or 10μA (whichever is greater) after 2 min.

Dissipation factor (120Hz, 20°C) *Add 0.02 for every 1000μF above 1000μF

Rated voltage	6.3V	10V	16V	25V	40V	50V	63V	dc
Tan δ (max.)*	0.22	0.19	0.16	0.14	0.11	0.10	0.09	
Rated voltage	100V	250V	350V	450V				dc
Tan δ (max.)	0.08	0.15	0.15	0.23				

Surge voltage capability

Rated voltage	6.3V	10V	16V	25V	40V	50V	63V	dc
Surge voltage	8V	13V	20V	32V	50V	63V	79V	dc
Rated voltage	100V	250V	350V	450V				dc
Surge voltage	125V	300V	400V	500V				dc

Multiplier for ripple current

Frequency coefficient							
Rated Voltage (V)	Freq (Hz)	50/60	120	1k	10k	100k	
	CV (μF.WV)						
6.3 ~ 16	≤1000	0.8	1.0	1.1	1.2	1.2	
	>1000	0.8	1.0	1.2	1.3	1.3	
25 ~ 40	≤1000	0.8	1.0	1.6	1.9	1.9	
	>1000	0.8	1.0	1.2	1.3	1.3	
250 ~ 450		0.8	1.0	1.3	1.5	1.6	
Temperature coefficient							
Temperature (°C)		+70		+85			
Factor		1.35		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
40 Volt						100 Volt					
4.7	30	5.0 x 11.0	2.0(5)	053236	053236T	0.1	5	5.0 x 11.0	2.0(5)	053128	053128T
10	45	5.0 x 11.0	2.0(5)	053037	053037T	0.22	8	5.0 x 11.0	2.0(5)	053129	053129T
22	60	5.0 x 11.0	2.0(5)	053038	053038T	0.33	10	5.0 x 11.0	2.0(5)	053130	053130T
33	90	5.0 x 11.0	2.0(5)	053039	053039T	0.47	10	5.0 x 11.0	2.0(5)	053072	053072T
47	100	6.3 x 11.0	2.5(5)	053040	053040T	1.0	15	5.0 x 11.0	2.0(5)	053073	053073T
100	200	8.0 x 11.5	3.5(5)	053041	053041T	2.2	25	5.0 x 11.0	2.0(5)	053074	053074T
220	360	10.0 x 12.5	5.0	053042	053042T	3.3	30	5.0 x 11.0	2.0(5)	053075	053075T
330	500	10.0 x 16.0	5.0	053043	053043T	4.7	35	5.0 x 11.0	2.0(5)	053076	053076T
470	620	10.0 x 20.0	5.0	053044	053044T	10	60	6.3 x 11.0	2.5(5)	053077	053077T
1000	1040	12.5 x 25.0	5.0	053045	053045T	22	110	8.0 x 11.5	3.5(5)	053078	053078T
2200	1900	16.0 x 31.5	7.5	053046	-	33	160	10.0 x 12.5	5.0	053079	053079T
3300	2250	18.0 x 35.5	7.5	053047	-	47	210	10.0 x 16.0	5.0	053080	053080T
4700	2500	18.0 x 35.5	7.5	053247	-	100	380	12.5 x 20.0	5.0	053081	053081T
50 Volt						250 Volt					
0.1	5	5.0 x 11.0	2.0(5)	053112	053112T	0.47	10	6.3 x 11.0	2.5(5)	053106	053106T
0.22	7	5.0 x 11.0	2.0(5)	053113	053113T	1.0	15	6.3 x 11.0	2.5(5)	053107	053107T
0.33	9	5.0 x 11.0	2.0(5)	053114	053114T	2.2	25	8.0 x 11.5	3.5(5)	053108	053108T
0.47	10	5.0 x 11.0	2.0(5)	053115	053115T	3.3	35	10.0 x 12.5	5.0	053109	053109T
1.0	15	5.0 x 11.0	2.0(5)	053048	053048T	4.7	40	10.0 x 12.5	5.0	053110	053110T
2.2	20	5.0 x 11.0	2.0(5)	053049	053049T	10	75	10.0 x 20.0	5.0	053111	053111T
3.3	25	5.0 x 11.0	2.0(5)	053116	053116T	22	140	12.5 x 25.0	5.0	053135	053135T
4.7	30	5.0 x 11.0	2.0(5)	053050	053050T	33	170	12.5 x 20.0	5.0	053136	053136T
10	45	5.0 x 11.0	2.0(5)	053051	053051T	47	240	16.0 x 25.0	7.5	053182	053182T
22	70	5.0 x 11.0	2.0(5)	053052	053052T	100	440	18.0 x 35.5	7.5	053183	-
33	100	6.3 x 11.0	2.5(5)	053053	053053T	350 Volt					
47	120	6.3 x 11.0	2.5(5)	053054	053054T	0.47	10	6.3 x 11.0	2.5(5)	053131	053131T
100	210	8.0 x 11.5	3.5(5)	053055	053055T	1.0	15	8.0 x 11.5	3.5(5)	053132	053132T
220	400	10.0 x 16.0	5.0	053056	053056T	2.2	30	10.0 x 12.5	5.0	053133	053133T
330	540	10.0 x 20.0	5.0	053057	053057T	3.3	35	10.0 x 12.5	5.0	053134	053134T
470	740	12.5 x 20.0	5.0	053058	053058T	4.7	45	10.0 x 16.0	5.0	053140	053140T
1000	1280	12.5 x 25.0	5.0	053459	053459T	10	75	10.0 x 20.0	5.0	053141	053141T
1000	1350	16.0 x 25.0	7.5	053059	053059T	22	140	12.5 x 25.0	5.0	053142	053142T
2200	2100	18.0 x 35.5	7.5	053221	-	33	200	16.0 x 25.0	7.5	053143	053143T
63 Volt						450 Volt					
0.1	5	5.0 x 11.0	2.0(5)	053117	053117T	1.0	15	10.0 x 12.5	5.0	053121	053121T
0.22	8	5.0 x 11.0	2.0(5)	053118	053118T	2.2	25	10.0 x 16.0	5.0	053122	053122T
0.33	9	5.0 x 11.0	2.0(5)	053119	053119T	3.3	35	10.0 x 20.0	5.0	053123	053123T
0.47	10	5.0 x 11.0	2.0(5)	053060	053060T	4.7	45	12.5 x 20.0	5.0	053124	053124T
1.0	15	5.0 x 11.0	2.0(5)	053061	053061T	10	75	12.5 x 25.0	5.0	053125	053125T
2.2	20	5.0 x 11.0	2.0(5)	053062	053062T	22	140	16.0 x 31.5	7.5	053126	-
3.3	30	5.0 x 11.0	2.0(5)	053063	053063T	33	200	18.0 x 35.5	7.5	053127	-
4.7	35	5.0 x 11.0	2.0(5)	053064	053064T	47	296	16.0 x 31.5	7.5	053155	-
10	50	5.0 x 11.0	2.0(5)	053065	053065T						
22	85	6.3 x 11.0	2.5(5)	053066	053066T						
33	100	6.3 x 11.0	2.5(5)	053067	053067T						
47	150	8.0 x 11.5	3.5(5)	053068	053068T						
100	260	10.0 x 12.5	5.0	053069	053069T						
220	460	10.0 x 20.0	5.0	053070	053070T						
330	650	12.5 x 20.0	5.0	053071	053071T						
470	850	12.5 x 25.0	5.0	053120	053120T						
1000	1550	16.0 x 31.5	7.5	053220	-						

(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.