FEATURES

- Miniaturization of the conventional products.
- Long life (1000 hours @ 85°C).
- Expanded applications for automatic mounting.
- Solvent resistant.

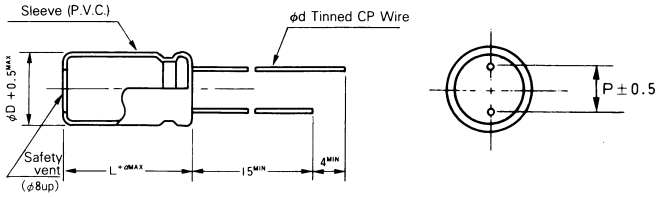
PART NUMBERING

Part Number Example: RNB-050/100M6X11F							
RNB	**-**	**050**	**/**	**100**	**M**	**6X11**	**F**
Type		Rated DC Voltage		Capacitance Code (μF)*	Tolerance Code	Size	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).							

SPECIFICATIONS

Performance Characteristics									
Operating Temperature Range	-40°C ~ +85°C.								
Temperature Characteristics (120Hz)	Impedance Ratio								
	Rated Voltage (WVDC)	6.3	10	16	25	35	50	63	100
	Z (-25°C) / Z (+20°C)	4	3	2	2	2	2	2	2
	Z (-40°C) / Z (+20°C)	10	8	6	5	4	4	3	3
Voltage Range	6.3VDC ~ 100VDC.								
Capacitance Range	0.1μF ~ 6800μF.								
Capacitance Tolerance (20°C, 120Hz)	±20%.								
Maximum Dissipation Factor (20°C, 120Hz)	Rated Voltage (WVDC)	6.3	10	16	25	35	50	63	100
	DF %	26	24	22	20	16	14	12	10
	For capacitance of more than 1000μF add 0.02μF for every increase of 1000μF.								
Maximum Leakage Current (after 5 minutes)	0.03CV or 3μA, whichever is greater.								
Applicable Standards	Characteristics of JIS C-5141.								
Load Life Test (85°C)	After 1000 hours' application of rated voltage, reversing polarity at every 250 hours, capacitors meet the characteristics requirements mentioned below.								
	Capacitance Change	Within ±20% of initial value.							
	DF	200% or less of initial specified value.							
	Leakage Current	Initial specified value or less.							
Shelf Life (85°C)	After leaving capacitors under no load for 1000 hours and applying voltage according to JIS C-5102 4-3, they meet the specified value for load life characteristics listed above.								

DIMENSIONS



DIMENSIONS (UNIT: mm)

D	5	6.3	8	10	12.5	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
dØ	0.5		0.6			0.8	
α	1.0	1.0	1.0	1.5	1.5	1.5	1.5

CASE SIZE OF STANDARD PRODUCTS (DØXL (mm))

Cap. (µF)		WVDC							
		6.3	10	16	25	35	50	63	100
0.10	0R1						5 x 11		5 x 11
0.22	R22						5 x 11		5 x 11
0.33	R33						5 x 11		5 x 11
0.47	R47						5 x 11		5 x 11
1.0	010						5 x 11		5 x 11
2.2	2R2						5 x 11		6.3 x 11
3.3	3R3						5 x 11		6.3 x 11
4.7	4R7					5 x 11	5 x 11	5 x 11	6.3 x 11
10	100			5 x 11	5 x 11	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5
22	220		5 x 11	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 16
33	330	5 x 11	5 x 11	5 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 13	13 x 20
47	470	5 x 11	5 x 11	6.3 x 11	6.3 x 11	8 x 11.5	10 x 13	10 x 16	13 x 20
100	101	6.3 x 11	6.3 x 11	8 x 11.5	8 x 11.5	10 x 16	10 x 20	13 x 20	16 x 25
220	221	8 x 11.5	8 x 11.5	10 x 13	10 x 16	13 x 20	13 x 25	16 x 25	18 x 35.5
330	331	8 x 11.5	10 x 16	10 x 16	13 x 20	13 x 20	16 x 25	16 x 31.5	
470	471	10 x 13	10 x 16	10 x 20	13 x 20	13 x 25	16 x 31.5	16 x 35.5	
1000	102	10 x 20	13 x 20	13 x 25	16 x 25	16 x 31.5			
2200	222	13 x 25	16 x 25	16 x 31.5	18 x 35.5				
3300	332	16 x 25	16 x 31.5	18 x 35.5					
4700	472	16 x 31.5	18 x 35.5						
6800	682	18 x 35.5							

MAXIMUM RIPPLE ((mA) 85°C, 120Hz)

Cap. (µF)		WVDC							
		6.3	10	16	25	35	50	63	100
0.10	0R1						1.0		2.0
0.22	R22						2.0		4.0
0.33	R33						3.0		7.0
0.47	R47						5.0		10
1.0	010						10		18
2.2	2R2						23		29
3.3	3R3						28		35
4.7	4R7					31	33	36	42
10	100			39	41	45	52	57	71
22	220		55	58	65	73	89	96	135
33	330	65	68	71	80	100	105	135	200
47	470	78	81	91	95	120	150	180	240
100	101	120	125	150	160	225	265	320	425
220	221	205	215	260	300	415	480	575	725
330	331	255	340	355	455	510	650	755	
470	471	360	405	460	545	655	835	965	
1000	102	615	720	815	950	1140			
2200	222	1070	1230	1380	1540				
3300	332	1410	1570	1740					
4700	472	1750	1930						
6800	682	2120							