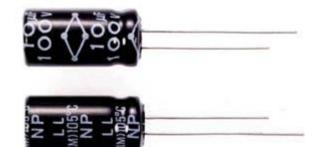
Sang Jing Electronics Co., Ltd.

NP series Non-Polarized

- NP series capacitors are suitable for crossover network for HI-FI equipment and speakers, etc.
- Have excellent frequency characteristic and small deviation of capacitance.

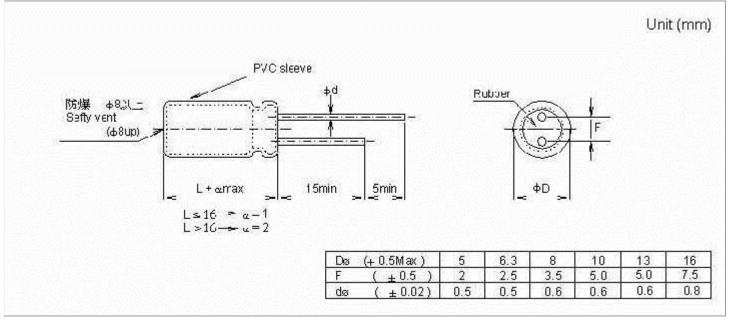


specifications

No.	Item	Performance								
1	Operating Temperature Range	- 40 to+105º c								
2	Rated Working Voltage Range	10 - 250v.DC								
3	Nominal Capacitance Range	0.47 - 2200µ F								
4	Capacitance Tolerance	± 20%(at+20° c ,120Hz)								
5	Leakage Current	$I \le 0.03$ CV or 3(µA) after five minutes								
6	Dissipation Factor (tan ໍ່⊄) (120Hz∖+20º c)	Working Voltage 6.3 10 16 25 35 50 63 100 160 200 250 tan max 0.25 0.25 0.20 0.15 0.15 0.10 0.12 0.15 0.15 0.20								
7	Characteristics at low temperature (stability at 120 Hz)	Working Voltage 6.3 10 16 25 35 50 63 100 160 200 250 -25° c/+20° c 4 3 2 2 2 2 2 2 2 3 -40° c/+20° c 8 6 4 4 3 3 3 3 - - -								
8	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° CLeakage current \leq the initial specified valueCapacitance change $\leq \pm 20\%$ of initial measured valueDissipation Factor(tan c°) $\leq 150\%$ of initial specified value								
9	Shelf Life	After storage for 500hrs. at +105º C with no voltage applied. Post test requirements at +20º C same limits as high temperature loading.								

NP series Non-Polarized

Diagram of Dimensions



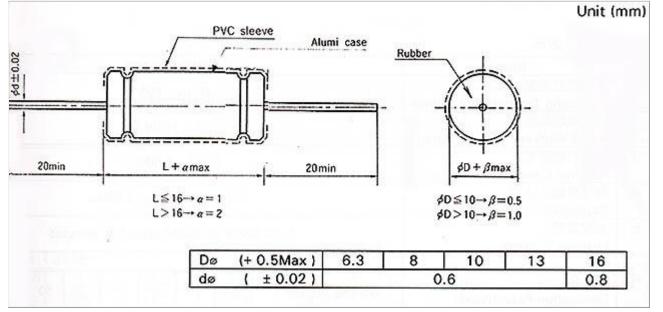
Case Size 1	Table				øD x L(mm)							
W.V. (SV)	10	16	25	35	50	63	100	160	200	250		
μF	(13)	(20)	(32)	(44)	(63)	(79)	(125)	(200)	(250)	(300)		
0.47					5 X 11		5 X 11	5 X 11	6.3 X 11	6.3 X 11		
1.0					5 X 11		5 X 11	6.3 X 11	8 X 11	8 X 11		
2.2					5 X 11	5 X 11	5 X 11	8 X 11	8 X 11	10 X 13		
3.3					5 X 11	6.3 X 11	6.3 X 11	8 X 11	10 X 13	10 X 16		
4.7			5 X 11	5 X 11	6.3 X 11	6.3 X 11	8 X 11	10 X 13	10 X 16	10 X 21		
10		5 X 11	5 X 11	6.3 X 11	6.3 X 11	8 X 11	10 X 16	10 X 16	10 X 21	13 X 21		
22	5 X 11	6.3 X 11	6.3 X 11	8 11	10 X 13	10 X 11	10 X 16	13 X 21	13 X 26	13 X 26		
33	6.3 X 11	6.3 X 11	8 X 11	10 X 13	10 X 16	10 X 21	13 X 21	16 X 26	16 X 26	16 X 32		
47	6.3 X 11	6.3 X 11	10 X 13	10 X 16	10 X 21	13 X 21	13 X 26	16 X 32				
100	8 X 11	10 X 16	10 X 21	13 X 21	13 X 21	13 X 26	16 X 32					
220	10 X 16	10 X 21	13 X 21	13 X 26	16 X 26	16 X 32						
330	10 X 21	13 X 21	16 X 26	16 X 26	16 X 36							
470	13 X 21	13 X 26	16 X 26	16 X 32								
1000	16 X 26	16 X 26										
2200	16 X 32											

Permissible Ri	pple Curr	ent		Max ripple current: mA (rms) (at 85°c.120Hz)						
WW (SV)	10	16	25	35	50	63	100	160	200	250
μF	(13)	(20)	(32)	(44)	(63)	(79)	(125)	(200)	(250)	(300)
0.47					13		13	15	18	20
1.0					19		19	19	22	25
2.2					29	29	33	38	45	50
3.3					40	40	46	51	60	70
4.7			34	38	48	48	55	63	73	85
10		47	55	65	80	80	95	110	125	145
22	65	80	95	110	130	140	160	180	210	240
33	90	110	120	140	170	190	220	250	290	330
47	110	130	150	190	230	240	260	300		
100	180	230	280	310	380	390	430			
220	310	380	410	510	640	640				
330	430	480	570	640	810					
470	530	630	760	850						
1,000	960	1040								
2,200	1410									

NP series Non-Polarized AXIAL TYPE

- NP series capacitors are suitable for crossover network for HI-FI equipments and speakers, etc.
- Have excellent frequency characteristic and small . deviation of capacitance.

Diagram of Dimensions



Case Size Table

Case Size Ta	ble				øD x L(mm)						
W.V. (SV)	6.3	10	16	25	35	50	63	100			
μF	(8)	(13)	(20)	(32)	(44)	(63)	(79)	(125)			
0.47					\rightarrow	6.3 X 16	\rightarrow	6.3 X 16			
1.0					\rightarrow	6.3 X 16	\rightarrow	6.3 X 16			
2.2					\rightarrow	6.3 X 16	\rightarrow	6.3 X 16			
3.3					\rightarrow	6.3 X 16	6.3 X 16	8 X 16			
4.7			\rightarrow	6.3 X 16	5 X 11	6.3 X 16	6.3 X 16	8 X 16			
10		\rightarrow	6.3 X 16	6.3 X 16	6.3 X 11	8 X 16	8 X 16	10 X 26			
22	\rightarrow	6.3 X 16	6.3 X 16	6.3 X 11	8 X 11	10 X 21	10 X 21	13 X 26			
33	6.3 X 16	6.3 X 16	8 X 16	8 X 16	10 X 13	10 X 26	10 X 26	13 X 32			
47	6.3 X 16	6.3 X 16	8 X 16	8 X 16	10 X 16	13 X 27	13 X 27				
100	8 X 16	8 X 16	10 X 21	10 X 21	13 X 21						
220	10 X 21	10 X 21	10 X 21	10 X 26	16 X 26						
330	10 X 21	10 X 26	13 X 27	10 X 27	16 X 26						
470	10 X 26	10 X 26	13 X 32		16 X 26						
1000	13 X 32										