

TS13AB

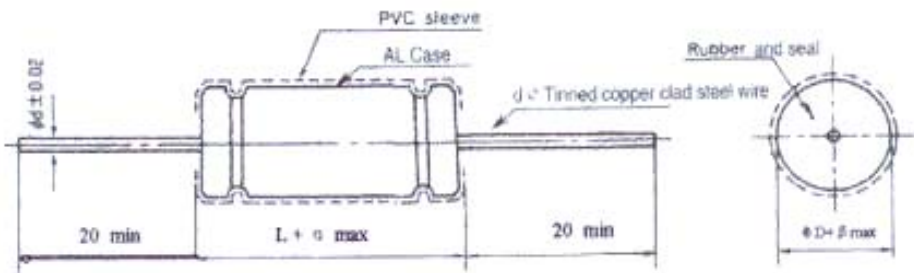
FEATURES

- Bi-polarized, suitable for crossover network of high-pitched and low-pitched sounds in high-fidelity sound systems.
- Have excellent frequency characteristics
- Low leakage current and low dissipation factor.



I T E M	C H A R A C T E R I S T I C								
Operating Temperature Range	-40℃ ~ +85℃								
Capacitance Tolerance	±5%, ±10%, 20% (at 20℃ 1KHz)								
Leakage Current	I = 0.04CV + 3(μA) (after 5 minutes applying the rated DC working voltage at 20℃) where: C= rated capacitance in μF. V = rated DC working voltage in V.								
Surge Voltage	<table><tr><td>Rated voltage (V)</td><td>50</td><td>63</td><td>100</td></tr><tr><td>Surge voltage (V)</td><td>63</td><td>79</td><td>125</td></tr></table>	Rated voltage (V)	50	63	100	Surge voltage (V)	63	79	125
Rated voltage (V)	50	63	100						
Surge voltage (V)	63	79	125						
Shelf Life	After 1000 hours application of rated voltage at 85℃ with the polarity inverted every 250hours, capacitors meet the characteristics requirements listed at right. <table><tr><td>Capacitance Change</td><td>Within ±20% of initial value</td></tr><tr><td>Dissipation Factor</td><td>Less than 200% of specified value</td></tr><tr><td>Leakage Current</td><td>Initial specified value of less</td></tr></table>	Capacitance Change	Within ±20% of initial value	Dissipation Factor	Less than 200% of specified value	Leakage Current	Initial specified value of less		
Capacitance Change	Within ±20% of initial value								
Dissipation Factor	Less than 200% of specified value								
Leakage Current	Initial specified value of less								
Shelf Life	After leaving capacitors under no load at 85℃ for 1000 hours and applying voltage they meet the specified value for load life characteristics listed above.								
Marking	Printed with white color letter on black sleeve.								

DIARGAM OF DIMENSIONS



LEAD DIAMETER

ΦD	6	8	10	12	13	16	18	22	25
Φ	0.6				0.8				
α	1.5			2.0					
β	0.5			1.0					

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DIMENSIONS: Diameter (DΦ)x Length(L) m/m

RIPPLE CURRENT. mA at 85°C, 1KHz

Tan δ		VDC: 50V, 63V													
		DF:3%		DF:4%		DF:5%		DF:6%		DF:10%		DF:12%		DF:15%	
μF	Contents	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA
1.0	010	13x26	171	10x20	114	10x20	102	8x17	76	8x17	59	6x16	44	6x16	40
1.5	1R5	13x26	209	10x20	139	10x20	125	8x17	93	8x17	72	6x16	54	6x16	49
2.2	2R2	13x26	253	10x20	169	10x20	151	8x17	113	8x17	88	6x16	66	6x16	59
2.7	2R7	13x26	281	10x20	187	10x20	167	8x17	125	8x17	97	8x17	89	8x17	79
3.3	3R3	13x26	310	10x20	207	10x20	185	10x20	158	8x17	107	8x17	98	8x17	88
3.9	3R9	13x26	337	10x24	242	10x24	217	10x20	184	8x17	117	8x17	106	8x17	95
4.7	4R7	13x31	398	10x24	266	10x24	238	10x20	201	8x17	128	8x17	117	8x17	104
5.6	5R6	13x31	434	10x24	290	10x24	259	10x20	220	8x17	140	8x17	136	8x17	122
6.8	6R8	13x31	479	10x24	320	10x24	286	10x24	261	10x20	188	8x20	150	8x20	134
7.5	7R5	13x31	503	10x24	336	10x24	300	10x24	274	10x20	197	8x20	158	8x20	141
8.2	8R2	13x31	526	13x26	424	10x24	314	10x24	287	10x20	206	8x20	165	8x20	147
10	100	16x33	673	13x26	468	10x24	347	10x24	317	10x20	228	8x20	182	8x20	163
12	120	16x33	737	13x26	513	10x24	380	10x24	347	10x20	249	8x20	199	8x20	178
15	150	16x33	825	13x26	573	13x26	513	10x24	388	10x20	279	8x20	223	8x20	199
18	180	16x33	903	13x26	628	13x26	561	10x24	425	10x24	329	10x20	279	10x20	249
22	220	16x42	1103	13x31	745	13x31	667	13x26	469	10x24	364	10x20	308	10x20	276
27	270	16x42	1222	13x31	826	13x31	739	13x26	628	10x24	403	10x20	341	10x20	305
33	330	16x42	1351	13x31	913	13x31	817	13x26	694	10x24	445	10x20	377	10x20	338
47	470	18x42	1727	16x33	1264	16x33	1131	13x31	890	13x26	532	10x24	485	10x24	434
56	560	18x42	1885	16x33	1380	16x33	1234	13x31	971	13x26	700	10x24	530	10x24	474
68	680	22x44	2384	16x33	1520	16x33	1360	13x31	1070	13x26	772	10x24	584	10x24	522
75	750	22x44	2504	16x33	1597	16x33	1428	13x31	1124	13x26	810	13x26	740	13x26	662
82	820	22x44	2618	16x33	1670	16x33	1493	13x31	1175	13x31	910	13x26	774	13x26	692
100	101	22x44	2891	16x42	2036	16x33	1649	16x33	1505	13x31	1005	13x26	854	13x26	764
120	121					16x33	1806	16x33	1649	13x31	1101	13x31	1005	13x31	899
150	151					16x42	2230	16x33	1844	16x33	1428	13x31	1124	13x31	1005
180	181							16x42	2230	16x33	1564	16x33	1428	16x33	1277
220	221							18x42	2641	16x33	1730	16x33	1579	16x33	1412
270	271									16x33	1916	16x33	1749	16x33	1564

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DIMENSIONS: Diameter (DΦ)x Length(L) m/m

RIPPLE CURRENT. mA at 85°C, 1KHz

Tan δ		VDC: 100V													
		DF:3%		DF:4%		DF:5%		DF:6%		DF:10%		DF:12%		DF:15%	
μF	Contents	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA	ΦDxL	mA
1.0	010	13x26	171	10x20	114	10x20	102	10x20	76	8x17	66	8x17	54	8x17	48
1.5	1R5	13x26	209	10x20	139	10x20	125	10x20	114	8x17	82	8x17	66	8x17	59
2.2	2R2	13x26	253	10x20	169	10x20	151	10x20	138	8x17	101	8x17	80	8x17	71
2.7	2R7	13x26	281	10x20	187	10x20	167	10x20	153	8x17	112	8x17	89	8x17	79
3.3	3R3	13x26	310	10x20	207	10x20	185	10x20	169	8x17	123	8x17	98	8x17	88
3.9	3R9	13x26	337	10x24	242	10x24	217	10x20	184	8x17	134	8x17	106	8x17	95
4.7	4R7	13x31	398	10x24	266	10x24	238	10x20	201	8x17	156	8x17	117	8x17	104
5.6	5R6	13x31	434	10x24	290	10x24	259	10x20	220	10x20	170	10x20	136	10x20	122
6.8	6R8	13x31	479	13x26	386	10x24	286	10x24	261	10x20	182	10x20	150	10x20	134
7.5	7R5	13x31	503	13x26	405	10x24	300	10x24	274	10x20	192	10x20	180	10x20	161
8.2	8R2	13x31	526	13x26	424	13x26	379	10x24	287	10x20	202	10x20	188	10x20	168
10	100	16x33	673	13x31	503	13x26	418	10x24	317	10x20	225	10x20	208	10x20	186
12	120	16x33	737	13x31	551	13x26	458	10x24	347	10x20	260	10x20	228	10x20	204
15	150	16x33	825	13x31	616	13x31	551	13x26	468	10x24	300	10x24	274	10x24	245
18	180	16x33	903	13x31	674	13x31	603	13x26	513	10x24	329	10x24	300	10x24	269
22	220	16x42	1103	13x31	745	13x31	667	13x26	567	10x24	364	10x24	332	10x24	297
27	270	16x42	1222	13x31	826	13x31	739	13x26	628	10x24	458	10x24	368	10x24	329
33	330	16x42	1351	16x33	1059	13x31	817	13x31	745	13x26	541	13x26	491	13x26	439
47	470	18x42	1727	16x33	1264	16x33	1131	16x33	1032	13x26	660	13x26	601	13x26	535
56	560	18x42	1885	16x42	1524	16x33	1234	16x33	1126	13x31	752	13x31	687	13x31	614
68	680	22x44	2384	16x42	1679	16x33	1360	16x33	1241	13x31	829	13x31	757	13x31	677
75	750	22x44	2504	16x42	1763	16x42	1577	16x33	1304	13x31	871	13x31	795	13x31	711
82	820	22x44	2618	18x42	1975	16x42	1649	16x33	1363	13x31	910	13x31	831	13x31	743
100	101	22x44	2891	18x42	2181	18x42	1951	16x42	1662	16x33	1160	16x33	1064	16x33	952
120	121					18x42	2137	16x42	1821	16x33	1277	16x33	1166	16x33	1043
150	151					22x44	2743	16x42	2036	16x33	1358	16x33	1210	16x33	1149
180	181							18x42	2389	16x42	1728	16x42	1577	16x42	1411
220	221							22x44	3032	18x42	2046	18x42	1868	18x42	1670
270	271											18x42	2069	18x42	1851