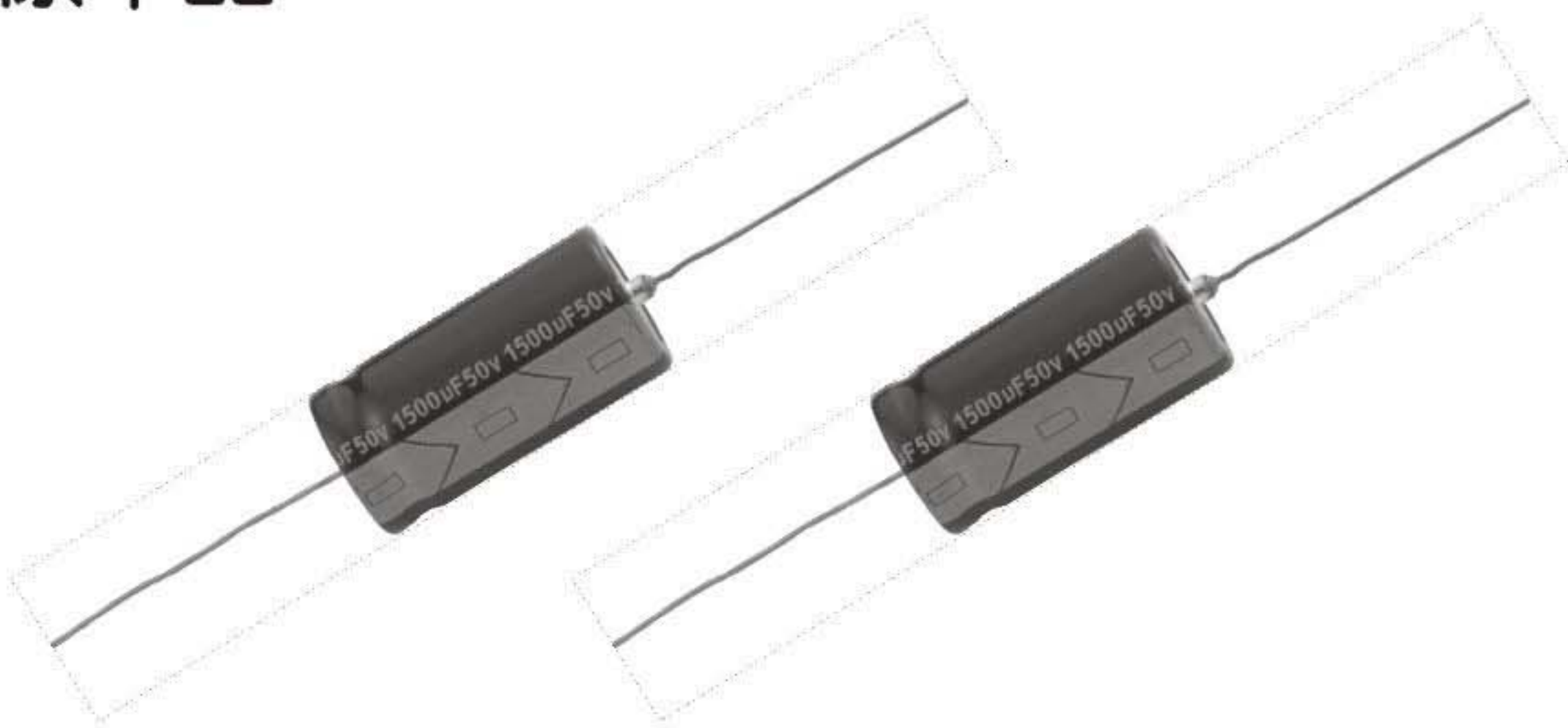




GPA series 105℃ Axial Type Capacitors 軸向高溫標準品

- 本系列為高CV值，適用於一般民生電子產品，有防爆孔設計，在105℃常溫下，耐用1000小時。
- For general purpose..
- Wide CV value range.
- Safety vent construction products are guaranteed 1,000 hours at 105℃



SPECIFICATIONS

No	Item		Performance Characteristics																																																																												
1	使用溫度範圍	Operating Temperature Range	-40 to + 105℃							-25 to +105℃																																																																					
2	定格電壓範圍	Rated Voltage Range	6.3 - 100 vDC							160 - 400 vDC																																																																					
3	靜電容量範圍	Capacitance Range	0.47 to 33000uF							0.47 to 1000uF																																																																					
4	靜電容量容許差	Capacitance Tolerance	±20%(at +20℃,120HZ)																																																																												
5	漏電電流 Leakage Current		I ≤0.01CV or 3(μ A)max							I ≤0.03CV+20 (μ A) max.																																																																					
			whichever is greater after 3 minutes.							I:Leakage Current (μ A) v:Rated Capacitance(μ A) v:working voltage(v)																																																																					
6	損失角 Dissipation Factor(tan δ) (120Hz/+20℃)		<table><tr><td>Working Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td></tr><tr><td>Tan max. δ</td><td>0.22</td><td>0.19</td><td>0.16</td><td>0.14</td><td>0.12</td><td>0.10</td><td>0.10</td><td>0.07</td><td>0.15</td><td>0.15</td><td>0.15</td><td>0.20</td><td>0.24</td></tr></table>														Working Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	Tan max. δ	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.07	0.15	0.15	0.15	0.20	0.24																																			
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			Add 0.02per 1000 μ F, for more than 1000 μ F.																																																																												
7	最大容許電流 MAXIMUM Permissible Ripple Current		Refer to standard products table (120Hz,+105℃). Correction factor ror frequency.																																																																												
			<table><tr><td colspan="2">Freq.(Hz)</td><td>60</td><td>120</td><td>1k</td><td>10k</td><td>100k</td></tr><tr><td>W.V.(VDC.)</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>0.1-330</td><td>0.85</td><td>1</td><td>1.30</td><td>1.40</td><td>1.55</td></tr><tr><td>6.3-50</td><td>470-3300</td><td>0.95</td><td>1</td><td>1.15</td><td>1.20</td><td>1.25</td></tr><tr><td></td><td>≥4700</td><td>0.95</td><td>1</td><td>1.10</td><td>1.20</td><td>1.20</td></tr><tr><td></td><td>0.47-33</td><td>0.75</td><td>1</td><td>1.55</td><td>1.65</td><td>1.80</td></tr><tr><td>63-100</td><td>47-220</td><td>0.75</td><td>1</td><td>1.40</td><td>1.60</td><td>1.65</td></tr><tr><td></td><td>≥330</td><td>0.80</td><td>1</td><td>1.30</td><td>1.35</td><td>1.40</td></tr><tr><td>≥160</td><td>1-220</td><td>0.70</td><td>1</td><td>1.30</td><td>1.75</td><td>1.70</td></tr></table>														Freq.(Hz)		60	120	1k	10k	100k	W.V.(VDC.)								0.1-330	0.85	1	1.30	1.40	1.55	6.3-50	470-3300	0.95	1	1.15	1.20	1.25		≥4700	0.95	1	1.10	1.20	1.20		0.47-33	0.75	1	1.55	1.65	1.80	63-100	47-220	0.75	1	1.40	1.60	1.65		≥330	0.80	1	1.30	1.35	1.40	≥160	1-220	0.70	1	1.30	1.75	1.70
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8	溫度特性 (at 120Hz) Charcteristics at low temperature (stability at 120Hz)		<table><tr><td>Working Voltage</td><td>6.3</td><td>10</td><td>16</td><td>25</td><td>35</td><td>50</td><td>63</td><td>100</td><td>160</td><td>200</td><td>250</td><td>350</td><td>400</td></tr><tr><td>Z- 25℃/ + 20℃</td><td>4</td><td>3</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>3</td><td>3</td><td>5</td><td>12</td></tr><tr><td>Z- 40℃/ + 20℃</td><td>8</td><td>6</td><td>4</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td></td><td></td><td></td><td></td><td></td></tr></table>														Working Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	Z- 25℃/ + 20℃	4	3	2	2	2	2	2	2	2	3	3	5	12	Z- 40℃/ + 20℃	8	6	4	4	3	3	3	3																										
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Z- 40℃/ + 20℃	8	6	4	4	3	3	3	3																																																																							
			For Capacitance Value>1000 μ F, Add 0.5 per another 1000 μ F for -25℃/+20℃ Add 1.0 per another 1000 μ F for -40℃/+20℃																																																																												

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SPECIFICATIONS

No	Item	Performance	
9	高温負荷特性 High Temperature Loading	After 1000 hrs.application of DC rated working voltage at +105℃ The capacitor shall meet the following limits; Post test requirements at +20℃	
		Leakage current	≤the initial specified value
		Capacitance change	≤ ±20% of initial measured value
		Dissipation Factor (tan σ)	≤200% of initial specified value
10	高温無負荷特性 Shelf Life	After storage for 500 hrs. at +105℃ with no voltage applier. Post test requirements at +20℃ same limits for high temperature loading.	

PERMISSIBLE RIPPLE CURRENT

Max ripple current :mA(rms)
(at 105℃,120Hz)

μ F	W.v(sv)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)	160 (200)	200 (250)	250 (300)	350 (400)	400 (450)
0.47							8		10	9	9	9	10	9
1.0							12		15	12	12	12	18	18
2.2							17		23	19	19	21	30	30
3.3							21		29	26	26	30	37	40
4.7					26	28	30	32	34	32	36	36	48	52
10				35	38	41	46	50	56	59	59	64	49	79
22			49	54	57	61	68	82	96	95	95	110	130	145
33	54	60	64	69	75	90	100	140	125	140	140	175	185	
47	65	70	99	82	100	110	135	180	165	165	180	230	330	
100	95	105	125	135	170	180	223	320	270	285	310	460	620	
220	460	175	215	2230	300	345	400	570	450	600	790	880		
330	195	245	260	335	400	460	540	700	840	990	1120			
470	270	290	370	440	520	610	700	880	1000	1120	1200			
1,000	460	550	640	770	920	1080	1210	1380	1500					
2,200	810	860	1000	1170	1340	1530	1660							
3,300	960	1100	1300	1460	1650	1800								
4,700	1330	1400	1600	1780	1900	2000								
6,800	1500	1690	1900	2030	2100	2200								
10,000	1765	1950	2100	2300	2500									
15,000	2075	2200	2300	2500										
22,000		2500	2700											
33,000		2800												