

POLYPHENYLENE SULFIDE FILM CAPACITOR ^{Type} AHS

Features

- New film capacitor Polyphenylene sulfide film as dielectric and high heat-resisting, applicable for a +125°C maximum operating temperature.
- Capable of continuous operation under a high temperature environment such as engine-room of automobile.
- Excellent temperature characteristics with flat capacitance change up to 100°C.

Specifications

Temp range	-55 to +125°C
Voltage	50V.d.c, 100V.d.c
Capacitance	50V 0.00027 to 0.47 μ F (E-24) 100V 0.00018 to 0.22 μ F (E-12)
Cap. tolerance	±2%(G), ±5%(J)
Tangent of loss	C≤0.30 μ F 0.003 or less C>0.30 μ F 0.005 or less (at 1kHz)
Insulation resistance	C≤0.33 μ F 50,000 Ω F or more C>0.33 μ F 30,000 Ω F or more
Endurance	125°C W.V. × 140%, 1000hr Δ C/C ±5% within $\tan\delta$ C≤0.33 μ F 0.004 or less IR 1,000M Ω or more C>0.33 μ F 0.006 or less
Damp heat	40°C 90 to 95%RH W.V. 1,000hr Δ C/C ±3% within $\tan\delta$ 0.006 or less IR 9,000M Ω or more

Style	Straight lead type		Single formed lead type	
Cap range	50V.d.c	271 to 474	393 to 474	271 to 363
	100V.d.c	181 to 224	103 to 224	181 to 822

For a pitch space(F) of the taping specification, refer to "TAPING DIMENSIONS"

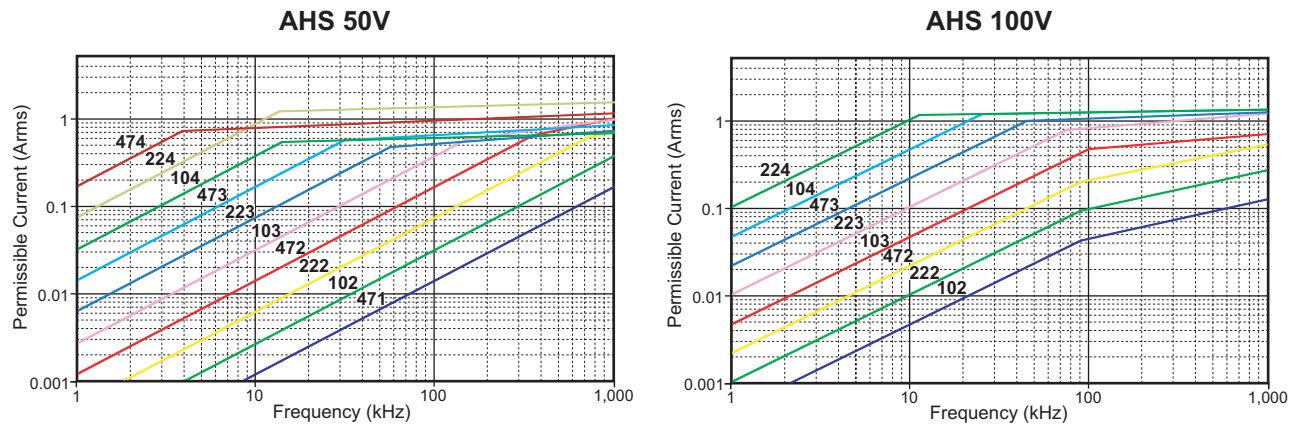
Dimensions(mm)

Capacitors Code	Cap(μ F)	AHS 50V.d.c						AHS 100V.d.c					
		W	H	T	P	F	ϕ d	W	H	T	P	F	ϕ d
181	0.00018							6.5	8.5	4.5	3.5	5.0	0.45
221	0.00022							6.5	8.5	4.5	3.5	5.0	0.45
271	0.00027	6.5	8.5	4.5	3.5	5.0	0.45	6.5	8.5	4.5	3.5	5.0	0.45
331	0.00033	6.5	8.5	4.5	3.5	5.0	0.45	6.5	8.5	4.5	3.5	5.0	0.45
391	0.00039	6.5	8.5	4.5	3.5	5.0	0.45	6.5	8.5	4.5	3.5	5.0	0.45
471	0.00047	6.5	7.0	3.5	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
561	0.00056	6.5	7.0	3.5	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
681	0.00068	6.5	7.0	3.5	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
821	0.00082	6.5	7.0	3.5	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
102	0.0010	6.5	7.0	3.5	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
122	0.0012	6.5	7.0	3.5	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
152	0.0015	6.0	7.0	3.5	3.5	5.0	0.45	6.0	7.5	4.5	3.5	5.0	0.45
182	0.0018	6.0	7.0	3.5	3.5	5.0	0.45	6.0	7.5	4.5	3.5	5.0	0.45
222	0.0022	6.0	7.0	3.5	3.5	5.0	0.45	6.0	7.5	4.5	3.5	5.0	0.45
272	0.0027	6.0	7.0	3.5	3.5	5.0	0.45	6.0	7.5	4.5	3.5	5.0	0.45
332	0.0033	6.0	7.0	4.0	3.5	5.0	0.45	6.0	7.5	4.5	3.5	5.0	0.45
392	0.0039	6.5	7.0	4.0	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
472	0.0047	6.5	7.0	4.0	3.5	5.0	0.45	6.5	7.5	4.5	3.5	5.0	0.45
562	0.0056	6.5	7.0	4.5	3.5	5.0	0.45	7.5	8.0	5.0	3.5	5.0	0.45
682	0.0068	7.0	7.0	4.5	3.5	5.0	0.45	8.0	8.0	5.3	3.5	5.0	0.45
822	0.0082	7.0	7.5	4.5	3.5	5.0	0.45	8.0	8.0	5.5	3.5	5.0	0.45
103	0.010	7.0	7.5	4.5	3.5	5.0	0.45	8.0	8.5	6.0	3.5	5.0	0.45
123	0.012	7.0	7.5	4.5	3.5	5.0	0.45	8.0	13.5	5.0	5.0	5.0	0.5
153	0.015	7.5	7.5	5.5	3.5	5.0	0.45	8.5	14.0	5.0	5.0	5.0	0.5
183	0.018	7.5	8.0	5.5	3.5	5.0	0.45	8.5	14.0	5.5	5.0	5.0	0.5
223	0.022	8.0	8.0	6.0	3.5	5.0	0.45	9.0	14.5	5.5	5.0	5.0	0.5
273	0.027	8.0	8.5	6.0	3.5	5.0	0.45	9.5	14.5	6.0	5.0	5.0	0.5
333	0.033	8.5	8.5	6.5	3.5	5.0	0.45	10.0	15.0	6.5	5.0	5.0	0.5
393	0.039	9.0	9.0	6.5	5.0	5.0	0.5	10.5	15.0	7.0	5.0	5.0	0.5
473	0.047	9.5	9.0	7.0	5.0	5.0	0.5	11.0	15.5	7.0	7.5	5.0	0.5
563	0.056	9.5	10.0	7.0	5.0	5.0	0.5	11.0	18.0	7.0	7.5	5.0	0.6
683	0.068	10.0	10.0	7.0	5.0	5.0	0.5	11.5	18.0	7.5	7.5	5.0	0.6
823	0.082	10.5	11.0	7.5	5.0	5.0	0.5	12.0	18.5	8.0	7.5	5.0	0.6
104	0.10	11.0	11.0	8.5	5.0	5.0	0.5	14.5	18.5	8.5	10.0	7.5	0.6
124	0.12	11.0	12.0	8.5	5.0	5.0	0.5	15.0	19.0	9.0	10.0	7.5	0.6
154	0.15	12.5	12.0	9.0	5.0	5.0	0.5	15.5	20.0	9.0	10.0	7.5	0.6
184	0.18	13.0	15.5	9.0	7.5	5.0	0.6	16.0	21.0	9.5	10.0	7.5	0.6
224	0.22	13.5	15.5	9.5	7.5	5.0	0.6	16.5	22.0	10.0	10.0	7.5	0.6
274	0.27	14.0	16.0	11.0	7.5	7.5	0.6						
334	0.33	15.5	16.0	11.0	7.5	7.5	0.6						
394	0.39	16.5	16.5	12.0	7.5	7.5	0.6						
474	0.47	17.0	17.0	13.0	7.5	7.5	0.6						

- Specifications of products, materials and other contents stated in the catalog are subject to change without notice.
- When using our capacitors, please consider the application contact Nissei for the any additional technical specifications relating to the limits of our performance characteristics.

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Characteristics of permissible current to frequency



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