

Features

AMZ

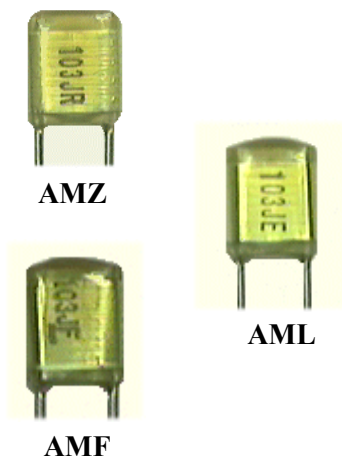
- 1) Very small size, especially in H dimension, which is advantageous to save space of PC Board.
- 2) Good reputations for use in general and industrial application.
- 3) Small allowance in the lead pitch dimensions.
- 4) Suitable for automatic insertion due to their small size and light weight.

AML

- 1) Can be used up to 105°C without voltage derating as heat resistance-improved type of AMZ. Suitable for application which requires high heat resistance.
- 2) No color change of exterior coating even for long use.

AMF

- 1) Oxygen Free Copper is used as the lead wire to improve tone quality.



Specifications

Temp Range	-40 to +85°C (+105°C) (AMZ, AMF)* -40 to +105°C (AML)	Tangent of loss angle	0.008 or less (at 1KHz)
Voltage	50, 100, 250, 400V.d.c.	Insulation Resistance	30,000MΩ or more
Capacitance	50V 0.00010 to 0.15μF (C<0.00047μF: E-12, C>=0.00047μF: E-24)	Endurance	105°C WW x 140% 1000hr (AML)
	100V 0.00010 to 0.00082μF (E-12) 0.0010 to 0.47μF (E-24)		85°C WW x 140% 1000hr (AMZ, AMF) ΔCC: ±3% within tanδ 0.011 or less IR 4500MΩ or more
	250V 0.0010 to 0.22μF (E-12)	Damp Heat	40°C, 90 to 95% RH WW 1000hr
	400V 0.0010 to 0.12μF (E-12)		ΔCC +6% within tanδ 0.012 or less IR 9000MΩ or more -2%
Cap. Tolerance	±5%(J), ±10%(K)		

* () Marked temperature shows operable range when voltage derated

* AMF series: Only "J" available.

Style	Straight Lead Type		Single Formed Lead Type			Double Formed Lead Type	
Cap Range	50V.d.c	101 to 154	101 to 154	101 to 333	101 to 154 F=5.0	101 to 154 F=5.0	154 to 474 F=5.0
	100V.d.c	101 to 474	AMZ: 101 to 474 AML: 101 to 134	154 to 474	101 to 134 F=5.0	154 to 474 F=5.0	
	250V.d.c	102 to 224	102 to 823	683 to 224			
	400V.d.c	102 to 124	102 to 473	273 to 124			

For F-dimension of double formed leads, please contact Nissei sales person.

When using our capacitors, please consider the application notes and contact Nissei for any additional technical specifications relating to the limits of our performance characteristics.

Dimensions(mm)

AMZ	Cap(μF)	AMZ 50V.d.c.						AMZ 100V.d.c.						AMZ 250V.d.c.						AMZ 400V.d.c.					
		W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd
101	0.00010	5.7	7.5	3.7	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.7	3.5±0.5	5.0	0.5												
121	0.00012	5.7	7.5	3.7	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.7	3.5±0.5	5.0	0.5												
151	0.00015	5.7	7.5	3.7	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.7	3.5±0.5	5.0	0.5												
181	0.00018	5.7	7.5	3.5	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.5	3.5±0.5	5.0	0.5												
221	0.00022	5.5	7.3	3.2	3.5±0.3±0.2	5.0	0.5	5.5	7.3	3.2	3.5±0.5	5.0	0.5												
271	0.00027	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
331	0.00033	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
391	0.00039	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
471	0.00047	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
561	0.00056	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5												
681	0.00068	5.0	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.0	7.0	2.8	3.5±0.5	5.0	0.5												
821	0.00082	4.8	7.0	2.5	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.5	3.5±0.5	5.0	0.5												
102	0.0010	4.8	7.0	2.5	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.5	3.5±0.5	5.0	0.5	5.3	10.0	2.8	3.5±0.5	5.0	0.5	6.5	11.0	3.5	4.0±0.5	5.0	0.6
122	0.0012	4.8	7.0	2.5	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.5	3.5±0.5	5.0	0.5	5.3	11.0	2.8	3.5±0.5	5.0	0.5	6.5	11.0	3.5	4.0±0.5	5.0	0.6
152	0.0015	4.8	7.0	2.5	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.5	3.5±0.5	5.0	0.5	5.3	11.0	2.8	3.5±0.5	5.0	0.5	6.5	11.0	3.5	4.0±0.5	5.0	0.6
182	0.0018	4.8	7.0	2.5	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.5	3.5±0.5	5.0	0.5	5.3	11.0	2.8	3.5±0.5	5.0	0.5	7.0	11.0	4.0	4.0±0.5	5.0	0.6
222	0.0022	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5	5.3	11.0	2.5	3.5±0.5	5.0	0.5	7.0	11.5	4.0	4.0±0.5	5.0	0.6
272	0.0027	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5	5.3	11.0	2.5	3.5±0.5	5.0	0.5	7.5	11.5	4.0	5.0±0.5	5.0	0.6
332	0.0033	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5	5.3	11.0	2.5	3.5±0.5	5.0	0.5	7.5	11.5	4.0	5.0±0.5	5.0	0.6
392	0.0039	5.0	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.0	7.0	2.5	3.5±0.5	5.0	0.5	5.8	11.0	2.8	3.5±0.5	5.0	0.5	8.5	13.0	4.5	6.0±0.5	5.0	0.6
472	0.0047	5.0	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.0	7.0	2.5	3.5±0.5	5.0	0.5	5.8	11.0	2.8	3.5±0.5	5.0	0.5	8.5	13.0	4.5	6.0±0.5	5.0	0.6
562	0.0056	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5	6.8	11.0	3.0	5.0±0.5	5.0	0.5	8.5	13.0	4.5	6.0±0.5	5.0	0.6
682	0.0068	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5	7.0	11.0	3.3	5.0±0.5	5.0	0.5	9.0	13.0	4.5	6.0±0.5	5.0	0.6
822	0.0082	5.0	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.0	7.0	2.8	3.5±0.5	5.0	0.5	7.3	12.0	3.3	5.0±0.5	5.0	0.5	9.5	13.5	5.5	6.0±0.5	5.0	0.6
103	0.010	5.5	7.0	3.0	3.5±0.3±0.2	5.0	0.5	5.5	7.0	3.0	3.5±0.5	5.0	0.5	7.3	12.0	3.3	5.0±0.5	5.0	0.5	9.5	13.5	5.5	6.5±0.5	5.0	0.6
123	0.012	5.8	7.0	3.3	3.5±0.3±0.2	5.0	0.5	5.8	7.0	3.3	3.5±0.5	5.0	0.5	7.3	12.0	3.5	5.5±0.5	5.0	0.5	10.0	14.0	6.0	7.0±0.5	5.0	0.6
153	0.015	5.3	8.5	3.0	3.5±0.3±0.2	5.0	0.5	6.0	9.5	4.0	3.5±0.5	5.0	0.5	7.5	12.0	3.5	5.5±0.5	5.0	0.5	11.0	14.0	6.5	7.5±0.5	5.0	0.6
183	0.018	5.3	8.5	3.0	3.5±0.3±0.2	5.0	0.5	6.5	9.5	4.5	3.5±0.5	5.0	0.5	7.8	12.0	3.8	6.0±0.5	5.0	0.5	11.5	16.0	6.5	7.0±0.5	5.0/7.5	0.6
223	0.022	5.5	9.0	3.5	3.5±0.3±0.2	5.0	0.5	6.5	9.5	4.5	3.5±0.5	5.0	0.5	8.3	12.0	4.0	6.0±0.5	5.0	0.5	11.5	16.5	6.5	7.0±0.5	5.0/7.5	0.6
273	0.027	5.5	9.0	3.0	3.5±0.3±0.2	5.0	0.5	6.5	11.5	3.5	3.5±0.5	5.0	0.5	9.0	12.0	4.5	6.0±0.5	5.0	0.5	12.5	18.5	7.0	8.0±0.5	5.0/7.5	0.6
333	0.033	5.8	9.0	3.5	3.5±0.3±0.2	5.0	0.5	6.5	11.5	4.0	3.5±0.5	5.0	0.5	9.0	12.5	4.5	6.5±0.5	5.0	0.5	12.5	19.0	7.0	8.5±0.5	5.0/7.5	0.6
393	0.039	6.5	9.0	3.5	5.0±0.3±0.2	5.0	0.5	8.0	12.0	4.0	5.0±0.5	5.0	0.5	9.8	12.5	5.3	6.5±0.5	5.0/7.5	0.5	14.0	19.5	7.5	9.0±0.5	5.0/7.5	0.6
473	0.047	7.0	9.0	3.5	5.0±0.3±0.2	5.0	0.5	8.0	12.0	4.0	5.0±0.5	5.0	0.5	11.5	15.5	6.5	7.5±0.5	5.0/7.5	0.6	14.0	20.0	8.0	9.5±0.5	5.0/7.5	0.6
563	0.056	7.0	9.5	4.0	5.0±0.3±0.2	5.0	0.5	7.5	12.5	5.0	5.0±0.5	5.0	0.5	12.0	17.0	7.0	7.5±0.5	5.0/7.5	0.6	15.0	20.5	9.0	10.0±0.5	5.0/7.5	0.6
683	0.068	7.5	9.5	4.5	5.0±0.3±0.2	5.0	0.5	7.5	12.5	5.0	5.0±0.5	5.0	0.5	13.0	19.0	7.0	8.5±0.5	5.0/7.5	0.6	16.0	21.0	9.5	11.0±0.5	5.0/7.5	0.6
823	0.082	8.0	9.5	4.5	5.0±0.3±0.2	5.0	0.5	8.5	12.5	5.8	5.0±0.5	5.0	0.5	14.0	19.0	7.5	9.5±0.5	5.0/7.5	0.6	17.0	21.0	11.0	11.0±0.5	5.0/7.5	0.6
104	0.10	8.3	9.5	5.0	5.0±0.3±0.2	5.0	0.5	8.5	12.5	5.8	5.0±0.5	5.0	0.5	14.3	19.0	7.5	10.0±0.5	5.0/7.5	0.6	18.0	22.5	10.0	12.0±0.5	10.0	0.6
124	0.12	7.8	11.0	5.0	5.0±0.3±0.2	5.0	0.5	11.0	12.5	6.0	7.5±0.5	5.0/7.5	0.5	16.0	20.0	9.5	10.5±0.5	5.0/7.5	0.6	19.0	22.5	11.0	12.0±0.5	10.0	0.6
154	0.15	8.5	11.5	5.5	5.0±0.3±0.2	5.0	0.5	12.5	14.0	6.0	10.0±0.5	5.0/7.5	0.5	16.0	20.0	9.5	11.0±0.5	5.0/7.5	0.6						
184	0.18							13.0	14.0	6.5	10.0±0.5	5.0/7.5	0.5	18.0	22.0	10.5	12.0±0.5	5.0/7.5	0.6						
224	0.22							13.5	14.0	6.5	10.0±0.5	5.0/7.5	0.5	18.0	22.5	10.5	12.5±0.5	5.0/7.5	0.6						
274	0.27							13.5	17.0	7.0	10.0±0.5	5.0/7.5	0.6												
334	0.33							14.5	17.0	8.0	10.0±0.5	5.0/7.5	0.6												
394	0.39							15.0	17.0	8.5	10.0±0.5	5.0/7.5	0.6												
474	0.47							16.0	17.0	9.5	10.0±0.5	5.0/7.5	0.6												

AMF AML	Cap(μF)	AMF/AML 50V.d.c.						AML 100V.d.c.						AML 250V.d.c.						AML 400V.d.c.					
		W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd	W	H	T	P	F	φd
101	0.00010	5.7	7.5	3.7	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.7	3.5±0.5	5.0	0.5												
121	0.00012	5.7	7.5	3.7	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.7	3.5±0.5	5.0	0.5												
151	0.00015	5.7	7.5	3.7	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.7	3.5±0.5	5.0	0.5												
181	0.00018	5.7	7.5	3.5	3.5±0.3±0.2	5.0	0.5	5.7	7.5	3.5	3.5±0.5	5.0	0.5												
221	0.00022	5.5	7.3	3.2	3.5±0.3±0.2	5.0	0.5	5.5	7.3	3.2	3.5±0.5	5.0	0.5												
271	0.00027	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
331	0.00033	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
391	0.00039	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
471	0.00047	5.2	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.2	7.0	2.8	3.5±0.5	5.0	0.5												
561	0.00056	4.8	7.0	2.8	3.5±0.3±0.2	5.0	0.5	4.8	7.0	2.8	3.5±0.5	5.0	0.5												
681	0.00068	5.0	7.0	2.8	3.5±0.3±0.2	5.0	0.5	5.0	7.0	2.8	3.5±0.														