

FEED THROUGH CERAMIC CAPACITORS [PLE Series]

The feed through type ceramic capacitor has a structure with very low residual inductance. Its resonance frequency reaches the microwave band, offering superior performance for removing unnecessary high-frequency noise.



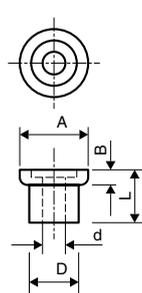
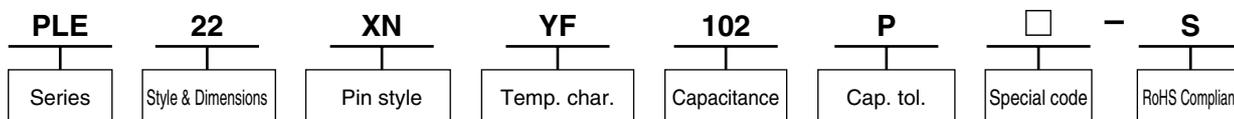
■Features

- Because of the multilayer structure, there is only a minimum change of characteristics by soldering and severe thermal cycles.
- When assembled into shield cases, both shielding and filtering can be achieved. Therefore, this will be very effective for EMC control.
- Suitable to be assembled into connectors because of the small size. Especially, the PLE123 can be used in 2mm pitch.
- RoHS Compliant.

■Applications

EMI control for AV, OA equipment, industrial equipment, and communication equipment.

■Part Number System



Unit : mm

Dimensions Type	A	D	d	B	L
PLE123	1.85±0.1	1.45±0.1	0.7±0.1	0.5±0.2	2.0max.
PLE12	2.3±0.2	1.9±0.1	0.9±0.1	0.5±0.2	1.5±0.3
PLE22	2.3±0.2	1.9±0.1	0.9±0.1	0.5±0.2	2.4±0.3
PLE32	2.3±0.2	1.9±0.1	0.9±0.1	0.5±0.2	3.5±0.3
PLE255	2.8±0.15	2.4±0.1	1.3±0.1	0.8±0.3	4.0±0.5
PLE23	4.3±0.2	3.0±0.2	1.5±0.1	1.0±0.2	2.5±0.3
PLE33	4.3±0.2	3.0±0.2	1.5±0.1	1.0±0.2	3.5±0.3
PLE335	4.3±0.2	3.5±0.1	1.5±0.1	1.0±0.2	3.5±0.3

*The PLE123 can be used in 2mm pitch.

Code	Note
CN	No pin
XN	with pin
AB	

Refer to pin style on the next page.

For temperature compensation

Code	Temp. char.	Code	Cap.	Code	tol.
SL	P350~N1000 PPM/°C	010	1pF	F	±1pF
YN	N800~N5800 PPM/°C	100	10pF	M	±20%
		101	100pF	Z	+80% -20%
		102	1000pF	P	+100% -0%

High dielectric constant type

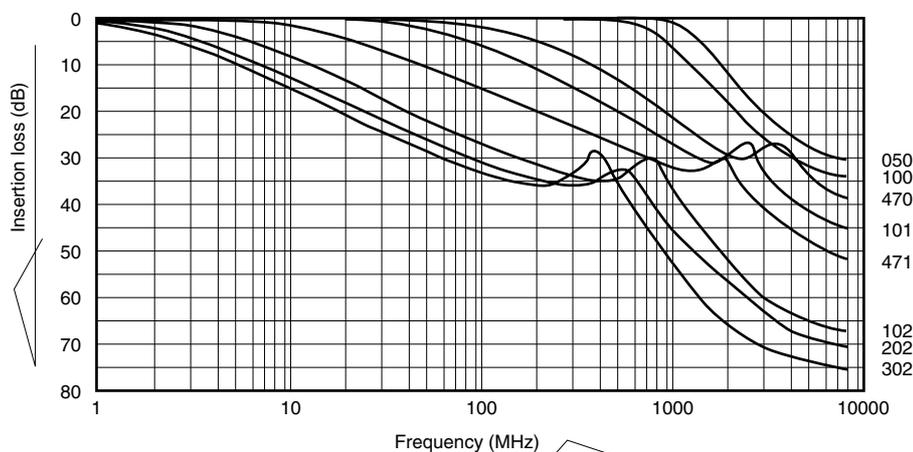
Code	Change
YE	+20~-55%
YF	+30~-80%
X7R	±15%

Refer to the part number list on the next page.

■Specifications

Class	Temp. char.	IR	Rated voltage	Temp. range
For temperature compensation	SL, YN	5000MΩ	50Vdc	-25~+ 85°C
High dielectric constant type	YE, YF	5000MΩ	50Vdc	-25~+ 85°C
	X7R	5000MΩ	50Vdc	-55~+125°C

■Insertion loss (Reference)

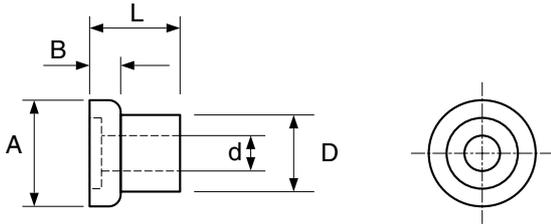


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Style & Dimensions

Unit : mm

Capacitor Dimensions

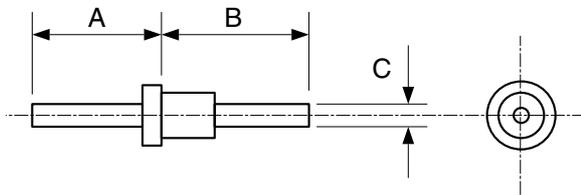


Type	Dimensions	A	D	d	B	L
PLE123		1.85±0.1	1.45±0.1	0.7±0.1	0.5±0.2	2.0max.
PLE12		2.3 ±0.2	1.9 ±0.1	0.9±0.1	0.5±0.2	1.5±0.3
PLE22		2.3 ±0.2	1.9 ±0.1	0.9±0.1	0.5±0.2	2.4±0.3
PLE32		2.3 ±0.2	1.9 ±0.1	0.9±0.1	0.5±0.2	3.5±0.3
PLE255		2.8 ±0.15	2.4 ±0.1	1.3±0.1	0.8±0.3	4.0±0.5
PLE23		4.3 ±0.2	3.0 ±0.1	1.5±0.1	1.0±0.2	2.5±0.3
PLE33		4.3 ±0.2	3.0 ±0.1	1.5±0.1	1.0±0.2	3.5±0.3
PLE335		4.3 ±0.2	3.5 ±0.1	1.5±0.1	1.0±0.2	3.5±0.3

*The PLE123 can be used in 2mm pitch.

Unit : mm

Pin Style Dimensions



Type	Dimensions	A	B	C	Applicable types
X N		12.5 ±1.0	15.5±1.0	0.65	PLE123
K N		5.0 ±1.0	10.0±1.0		
T N		13.0 ±1.0	15.0±1.0	0.80	PLE12, 22, 32
F U		10.0 ±1.0	10.0±1.0		
A Q		8.0 ±1.0	21.0±1.0	1.00	PLE255
A R		8.0 ±1.0	15.0±1.0		
A B		8.0 ±1.0	7.0±1.0		
				1.20	PLE23, 33, 335

Pin type products solderable at low temperature are available for easy assembling. (PLE23, 33, 335 types only)
(Special code : SDA)

Part Number List

Type	Temperature characteristics	Capacitance(pF)	Tolerance	Temp. range	Rated voltage	IR
PLE123	SL	10	± 1pF	-25~+ 85°C	50Vdc	5000MΩ min.
	YE	220	± 20 %			
	YF	1,000	+100 % - 0 %			
PLE12	SL	1	± 1pF			
	YE	10	± 1pF			
	YF	470	+100 % - 0 %			
PLE22	SL	5	± 1pF			
		22	± 1pF			
	YN	47	± 20 %			
		100	± 20 %			
	YE	470	± 20 %			
PLE32	YF	1,000	+100 % - 0 %	-55~+125°C		
	X7R	1,200	± 20 %	-25~+ 85°C		
	YF	3,000	+ 80 % - 20 %	-25~+ 85°C		
PLE255	X7R	1,000	+100 % - 0 %	-55~+125°C		
	YF	4,700	+80 % -20 %	-25~+ 85°C		
PLE23	SL	2	± 1pF			
	YE	1,000	+100 % - 0 %			
	YF	2,000	+100 % - 0 %			
PLE33	SL	100	± 20 %			
	YE	1,000	+100 % - 0 %			
	YF	2,200	+100 % - 0 %			
PLE335	YE	1,000	+100 % - 0 %			
	YF	2,000	+100 % - 0 %			

Dimensions and capacitance other than described above are available by request. Please contact our sales department for details.