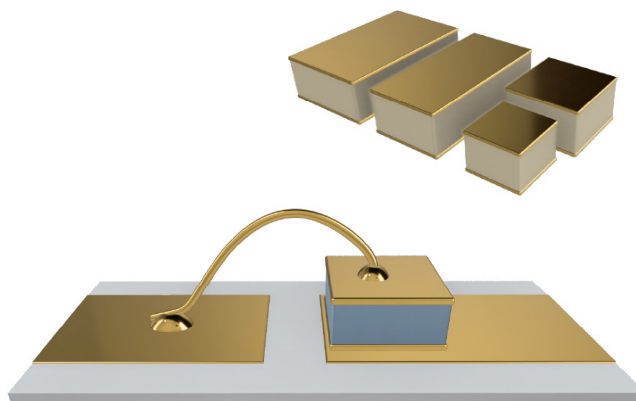


Vertical Layer Capacitors

XV
Series



- High Frequency response
- Class II (-55 to 125°C)
- RoHS Compliant
- Small size (1010)

Custom sizes also available.

Product Overview

Eulex vertical layer capacitor with gold (Au) metallization for wire bonding, solder, or epoxy die attach to high purity gold connector pads. Class II dielectric in a range of case sizes, voltages and capacitance offerings. Suitable for DC blocking, tuning, RF bypass, filtering, microwave applications.

Selection Guide

Size	Length inch (mm)	Width Inch (mm)	Thickness Inch (mm)	Capacitance pF (Max)				
				6.3 Volt	16 Volt	25 Volt	50 Volt	100 Volt
1010	0.010 ±0.004 (0.254 ±0.102)	0.010 ±0.004 (0.254 ±0.102)	0.008±0.003 (0.203±0.076)	1,000**	N/A	N/A	N/A	N/A
1515	0.015 ±0.004 (0.381 ±0.102)	0.015 ±0.004 (0.381 ±0.102)	0.012 ±0.004 (0.305 ±0.102)	10,000+	1,000**	N/A	N/A	N/A
2020	0.020 ±0.004 (0.508 ±0.102)	0.020 ±0.004 (0.508 ±0.102)	0.014 ±0.004 (0.355 ±0.102)	100,000**	8,200**	4,700**	2,200	1,000
3030	0.030 ±0.005 (0.762 ±0.127)	0.030 ±0.005 (0.762 ±0.127)	0.020 ±0.004 (0.508 ±0.102)	N/A	22,000**	22,000**	10,000	4,700
4040	0.040 ±0.005 (1.016 ±0.127)	0.040 ±0.005 (1.016 ±0.127)	0.025 ±0.005 (0.635 ±0.127)	N/A	100,000**	47,000**	22,000	10,000
4080*	0.040 ±0.005 (1.016 ±0.127)	0.080 ±0.005 (2.032 ±0.127)	0.025 ±0.005 (0.635 ±0.127)	N/A	100,000	68,000	27,000	15,000
5080*	0.050 ±0.005 (1.270 ±0.127)	0.080 ±0.005 (2.032 ±0.127)	0.025 ±0.005 (0.635 ±0.127)	N/A	220,000	180,000	68,000	27,000

* Coming 2026

** Currently available only in X5R

+ 10 Volt capable (WVDC)

Part Number Description

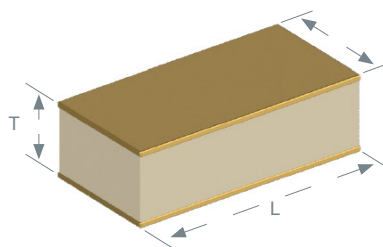
XV	G	4040	X	102	M	G	W
Vertical Layer	Voltage Code	Case Size	Dielectric Type	Capacitance Value	Capacitance Tolerance	Metallization Type	Packaging

Voltage Code		Capacitance Code	
A	6.3VDC	470	47pF
C	10VDC	271	270pF
E	16VDC	102	1,000pF
L	25VDC	223	22,000pF
G	50VDC	224	220,000pF
B	100VDC		

First 2 digits are significant values and 3rd digit indicates Dielectric the number of zeros.

Dielectric		Capacitance Tolerance	
D	X5R	M	±20%
X	X7R		

Metallization		Packing	
G	Gold (Au)	W	ESD Waffle Pack



Electrical & Mechanical Specifications

Specifications / Test Condition	Dielectric	
	X5R (D)	X7R (X)
Operating Temperature Range	-55°C to 85°C	-55°C to 125°C
Temperature Coefficient	±15%	±15%
Capacitance Test	1kHz @ 1VAC rms	1kHz @ 1VAC rms
Dissipation Factor	+10% Max	+5% Max
Insulation Resistance @ 25°C	≥500MΩ μF	≥1000MΩ μF
Dielectric Withstanding Voltage	250% WVDC	250% WVDC
Wire bond Pull Strength (0.001" dia. Au wire)	3 grams min	3 grams min
Shear Strength (tested 1515 w/AuSn solder)	200 grams min	200 grams min

Dielectric Temperature Coefficients

