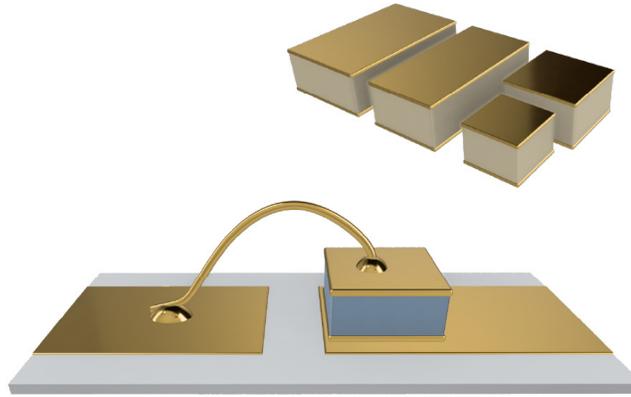


## Vertical Layer Capacitors

# 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

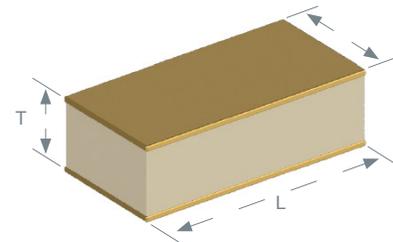
XV	G	4040	X	102	M	G	W
Vertical Layer	Voltage Code	Case Size	Dielectric Type	Capacitance Value	Capacitance Tolerance	Metallization Type	Packaging

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 3<sup>rd</sup> 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

