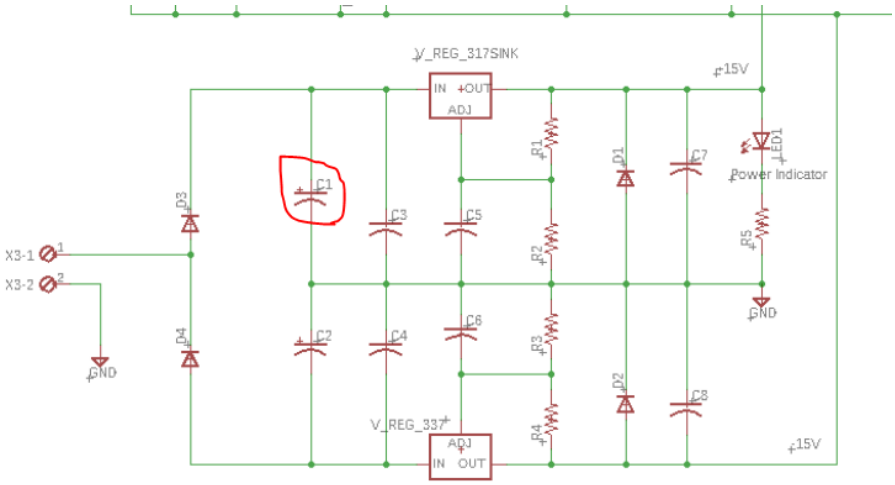
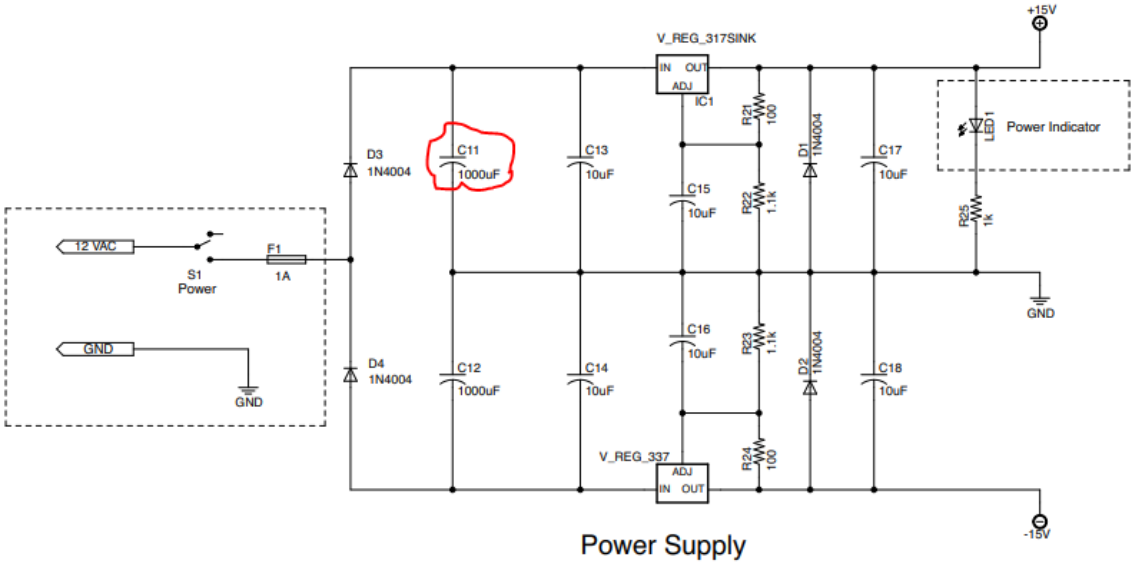
Example: How to pick a right capacitor from EAGLE parts:

1. Let's say you are looking for this capacitor on EAGLE:



2. Go to Schematic file to see what is the value of this Cap → it is 1000uf:

https://faculty.sfsu.edu/sites/default/files/faculty_files/7396/ENGR301/Final%20Project/03_projSchematic.pdf



3. Go to your excel sheet part# and search for a cap with 1000uf. Note that this capacitor has a polarity.

ndex	Part Number	Manufacturer Part Number	Description
1	445-8290-ND	FK14X5R1C106K	CAP CER 10UF 16V X5R RADIAL
2	BC1023CT-ND	K681J15C0GF5TL2	CAP CER 680PF 50V C0G/NP0 RADIAL
3	493-16123-ND	UVP1C102MHD	CAP ALUM 1000UF 20% 16V RADIAL
4	2N5551TFRCT-ND	2N5551TFR	TRANS NPN 160V 0.6A TO-92
5	2N5401CS-ND	2N5401	TRANS PNP 150V 0.6A TO-92
6	MJE15032GOS-ND	MJE15032G	TRANS NPN 250V 8A TO220AB

4. On Google search for: UVP1C102MHD
    a. You will find : https://www.digikey.com/en/products/detail/nichicon/UVP1C102MHD/2539555

Image shown is a representation only. Exact specifications should be obtained from the product data sheet.

UVP1C102MHD

Digi-Key Part Number	493-16123-ND
Manufacturer	Nichicon
Manufacturer Product Number	UVP1C102MHD
Description	CAP ALUM 1000UF 20% 16V RADIAL
Detailed Description	1000 µF 16 V Aluminum Electrolytic Capacitors Radial, Can 2000 Hrs @ 85°C
Customer Reference	Customer Reference
Datasheet	Datasheet

Product Attributes

TYPE	DESCRIPTION	SELECT
Category	Capacitors Aluminum Electrolytic Capacitors	
Mfr	Nichicon	
Series	UVP	
Package	Bulk	
Product Status	Not For New Designs	
Capacitance	1000 µF	
Tolerance	±20%	
Voltage - Rated	16 V	
ESR (Equivalent Series Resistance)	-	
Lifetime @ Temp.	2000 Hrs @ 85°C	
Operating Temperature	-40°C ~ 85°C	
Polarization	Bi-Polar	
Ratings	-	
Applications	General Purpose	
Ripple Current @ Low Frequency	855 mA @ 120 Hz	
Ripple Current @ High Frequency	993.25 mA @ 10 kHz	
Lead Spacing	0.197" (5.00mm)	
Size / Dimension	0.492" Dia (12.50mm)	

In here you can have a quick look at the capacitor important dimensions: Lead space = 5mm and Diameter = 12.5cm

b. Or Go to the datasheet for more details if needed: https://products.nichicon.co.jp/en/pdf/XJA043/e-uvp.pdf

ALUMINUM ELECTROLYTIC CAPACITORS nichicon

UVP

■ Dimensions

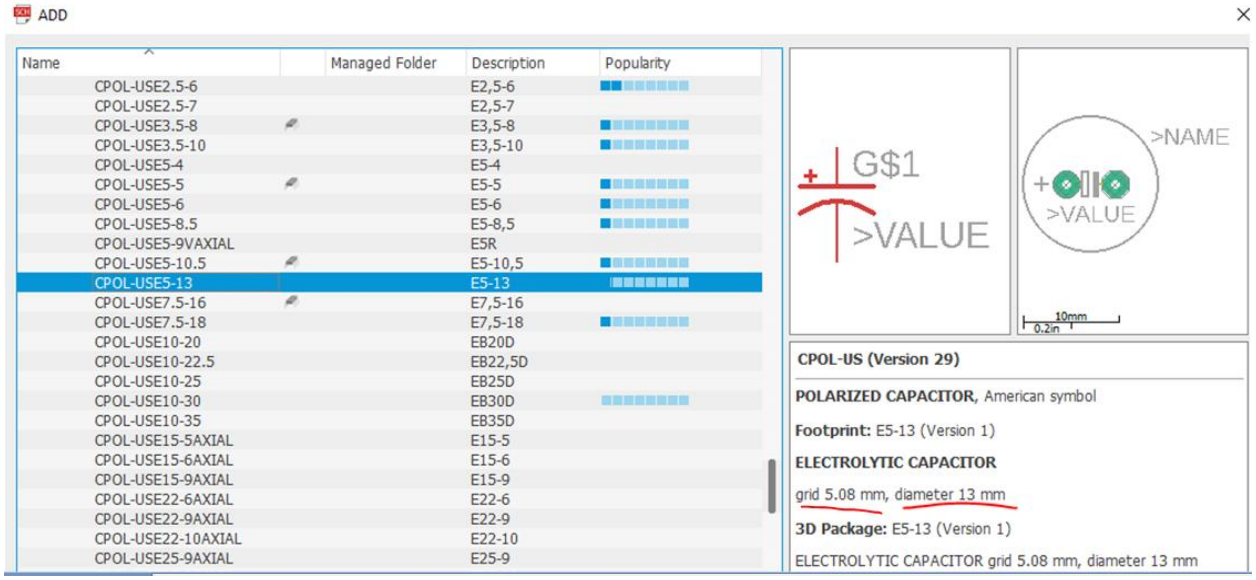
Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20℃ after 5 minutes)	Rated Ripple (mArms) (85℃/120Hz)	Part Number
6.3 (0J)	33	5×11	0.26	6.237	64	※UVP0J330MDD
	47	5×11	0.26	8.883	76	※UVP0J470MDD
	100	6.3×11	0.26	18.9	125	※UVP0J101MED
	220	8×11.5	0.26	41.58	215	UVP0J221MPD
	330	8×11.5	0.26	62.37	265	UVP0J331MPD
	470	10×12.5	0.26	88.83	370	UVP0J471MPD
	1000	10×20	0.26	189	650	UVP0J102MPD
	2200	12.5×25	0.28	415.8	1160	UVP0J222MHD
	3300	16×25	0.30	623.7	1570	UVP0J332MHD
	4700	16×30.5	0.32	888.3	2020	UVP0J472MHD
	6800	18×35.5	0.36	1285.2	2600	UVP0J682MHD
10 (1A)	22	5×11	0.24	6.6	57	※UVP1A220MDD
	33	5×11	0.24	9.9	64	※UVP1A330MDD
	47	5×11	0.24	14.1	76	※UVP1A470MDD
	100	6.3×11	0.24	30	125	※UVP1A101MED
	220	8×11.5	0.24	66	215	UVP1A221MPD
	330	10×16	0.24	99	345	UVP1A331MPD
	470	10×16	0.24	141	410	UVP1A471MPD
	1000	12.5×20	0.24	300	720	UVP1A102MHD
	2200	16×25	0.26	660	1280	UVP1A222MHD
	3300	16×30.5	0.28	990	1690	UVP1A332MHD
	4700	18×35.5	0.30	1410	2160	UVP1A472MHD
16 (1C)	10	5×11	0.22	4.8	42	※UVP1C100MDD
	22	5×11	0.22	10.56	57	※UVP1C220MDD
	33	5×11	0.22	15.84	70	※UVP1C330MDD
	47	6.3×11	0.22	22.56	95	※UVP1C470MED
	100	8×11.5	0.22	48	160	UVP1C101MPD
	220	10×12.5	0.22	105.6	275	UVP1C221MPD
	330	10×16	0.22	158.4	375	UVP1C331MPD
	470	10×20	0.22	225.6	485	UVP1C471MPD
	1000	12.5×25	0.22	480	855	UVP1C102MHD
	2200	16×30.5	0.24	1056	1510	UVP1C222MHD

From datasheet you will see the dimension and value of the cap:

From datasheet you can see the capacitor has a diameter of 12.5mm and value of 1000uf.

5. Go to EAGLE parts under RLC → CPOL-US. This means capacitors with polarity and US symbol.

6. Now look at capacitor which has 12.5mm diameter (or very close to 12.5mm), lead space/grid of 5mm , polarity and foot print of cylindrical shape:



This is the right part for your schematic.