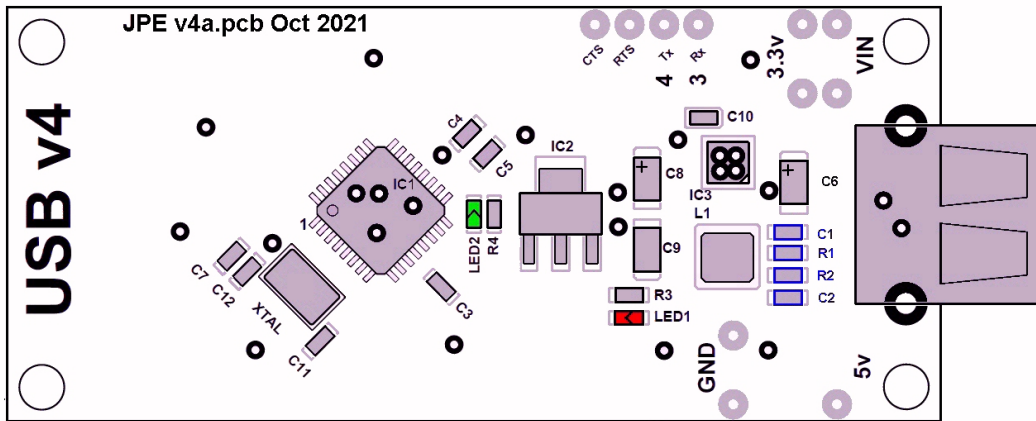


USB V4 Board – Component Layout



Ref	Value	Size	
R1	27R	0805	On Underside of PCB
R2	27R	0805	On Underside of PCB
R3	330R	0805	
R4	240R	0805	
C1	47pF x 16v Cer X5R	0805	On Underside of PCB
C2	47pF x 16v Cer X5R	0805	On Underside of PCB
C3	100nF x 16v Cer X5R	0805	
C4	100nF x 16v Cer X5R	0805	
C5	100nF x 16v Cer X5R	0805	
C6	10uF x 16v Tant	1206	
C7	100nF x 16v Cer X5R	0805	
C8	10uF x 16v Tant	1206	
C9	22uF x 16v Cer X7R	1206	
C10	1uF x 16v Cer X5R	0805	
C11	18pF x 16v Cer NPO	0805	$C_{11}=C_{12}=2(C_L-C_s)$
C12	18pF x 16v Cer NPO	0805	$C_{11}=C_{12}=2(12-3)=18pf$
IC1	FT312D	32pin LQFP	DigiKey / RS 196-6425
IC2	LM1117 3.3v	SOT223	DigiKey / RS 533-9577
IC3	TPS62112 5.0v	16pin QFN	DigiKey / RS n/a
XTAL	12MHz $C_L=12pf$	5mm x 3.2mm	RS 813-6047
L1	6.8uH x 2.0A	4mm x 4mm	EBay Jan 2020 'Tree.nini'
LED1	Red	0805	
LED2	Green	0805	