

## QA for 10MHz GPSDO V4.2

1. Can you please provide us with the exact part numbers or purchase links for the components below?

*Designator	*Qty	Manufacturer	*Mfg Part #	Description / Value	*Package/Footprint
D8	1			7V5	D_1206_3216Metric_Pad1.42x1.75mm_HandSolder  I used this pad to accommodate various packages like SOD123 and SOD 323 or radial types. Example BZV55-C7V5, Digikey 1727-4976-1-ND
FB2, FB3	2			2A	L_0805_2012Metric_Pad1.05x1.20mm_HandSolder Example Digikey pn <a href="#">BLM21PG221SN1D</a>
FB6, FB7	2			1K	L_0603_1608Metric_Pad1.05x0.95mm_HandSolder example Digikey pn <a href="#">HZ0603B102R-10</a>
L1	1			10-100uH	L_Axial_L5.3mm_D2.2mm_P2.54mm_Vertical_Vishay_IM-1 example Digikey pn <a href="#">AIAP-01-470K-T</a>
U10	1			CTI_OC5SC25	CTI_OC5SC25 This was purchased used/second hand on eBay or Aliexpress

U11	1		Bliley_NV47M1008	Bliley_NV47M1008 This was purchased used/second hand on eBay or Aliexpress
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2. For 1N4148, we cannot find the one with the 0805 package, can you send us its purchase link?

*Designator	*Qty	Manufacturer	*Mfg Part #	Description / Value	*Package/Footprint
D3, D4, D5, D6	4			1N4148	D_0805_2012Metric_Pad1.15x1.40mm_HandSolder  I used an 0805 pad so it could accommodate SOD523, like Digikey pn: 1N4148W-WT

3. Can you please provide us with the exact part numbers or purchase links for the ICs below?

*Designator	*Qty	Manufacturer	*Mfg Part #	Description / Value	*Package/Footprint	Type
U14, U4	2			LM45	SOT-23 Example, Digikey <a href="#">LM45BIM3X/NOPB</a> SENSOR ANALOG -20C-100C SOT23-3	smt
U15	1			DAC8531	VSSOP- 8_3.0x3.0mm_P0.65mm Example, Digikey <a href="#">DAC8531E/250</a> IC DAC 16BIT V-OUT 8VSSOP <a href="#">Texas Instruments</a>	smt

U16	1		REF5040AD	SOIC- 8_3.9x4.9mm_P1.27mm <b>Example Digikey:</b> <b><u>REF5040AIDR</u></b> IC VREF SERIES 0.1% 8SOIC <a href="#"><i>Texas Instruments</i></a>	smt
U5	1		OPA1641	SOIC- 8_3.9x4.9mm_P1.27mm <b>Example Digikey:</b> <b><u>OPA1641AIDR</u></b> IC AUDIO 1 CIRCUIT 8SOIC <a href="#"><i>Texas Instruments</i></a>	smt
U7	1		LM317	TO-252-2-large_tab Example Digikey: <b><u>LM317MKVURG3</u></b> IC REG LIN POS ADJ 500MA T0252-3 <a href="#"><i>Texas Instruments</i></a>	smt

4. For the components below, do we just need to provide pin header/female headers?

5. **Correct!**

*Designator	*Qty	Manufacturer	*Mfg Part #	Description / Value	*Package/Footprint
J11	1			LM317	PinHeader_1x03_P2.54mm_Vertical
J2	1			RF conn	PinHeader_1x03_P2.54mm_Vertical
J4	1			5V Counter	PinHeader_1x02_P2.54mm_Vertical
J5	1			LM35DT	PinHeader_1x03_P2.54mm_Vertical
J6	1			NEO 6M/8M/8T	PinSocket_1x05_P2.54mm_Vertical
J7	1			NEO Serial	PinHeader_1x03_P2.54mm_Vertical
J8	1			NANO Serial	PinHeader_1x03_P2.54mm_Vertical
J9	1			LED	PinHeader_1x02_P2.54mm_Vertical

**C17** is listed as a 22uF NPO capacitor. NPO is hard to get and not critical. You can use a 20uF value or put two 10uF on top or next to each other.