

## VCO-PLL-0.C

Designator	Part Type	Footprint	Description	Manufactuer	Part Nr	USE	Farnell
C1	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C2	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C3	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C4	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	THIS	1828928
C5	10n	0805	Capacitor	Murata	GRM216R71H103JA01D	THIS	8820090
C6	10n	0805	Capacitor	Murata	GRM216R71H103JA01D	THIS	8820090
C7	10n	0805	Capacitor	Murata	GRM216R71H103JA01D	THIS	8820090
C8	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	THIS	1828928
C9	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C10	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C11	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	THIS	1828928
C12	470nF	0805	Capacitor	Murata	GRM21BR71E474KA01L	THIS	1828926
C12A	2.2uF	0805	Capacitor	Murata	GRM316R61C225KA88D	THIS	1845754
C13	33uF	1210	Capacitor	TDK	C3225X5R0J336M/2.50	THIS	1844645
C13A	2.2uF	1210	Capacitor	Murata	GRM316R61C225KA88D	THIS	1845754
C14	1uF	0805	Capacitor	Murata	GRM216R61C105KA88D	THIS	1845744
C14A	180nF	0805	Capacitor	Multicomp	MCCA000300	THIS	1759171
C15	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	THIS	1828928
C16	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C17	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C18	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C19	16pF	0805	Capacitor	Kemet	C0402C160J5GACTU	THIS	1865423
C20	16pF	0805	Capacitor	Kemet	C0402C160J5GACTU	THIS	1865423
C21	47n	0805	Capacitor	Murata	GRM21BR71H473KA01L	ANY	8820112
C22	47n	0805	Capacitor	Murata	GRM21BR71H473KA01L	ANY	8820112
C23	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	ANY	1828928
C24	470uF	LYTSMD8	Electrolytic Capacitor	EPCOS	B41142A4477M	ANY	1735333
C25	10uf	1206	Capacitor	AVX	12063D106KAT2A	ANY	1833825
C26	1n	0805	Capacitor	Murata	GRM216R71H102KA01D	ANY	1828945
C27	220uF	LYTSMD8	Electrolytic Capacitor	Panasonic	EEEFK1A221P	ANY	9695605
C28	1n	0805	Capacitor	Murata	GRM216R71H102KA01D	ANY	1828945
C29	10uF	1206	Capacitor	AVX	12063D106KAT2A	ANY	1833825
C30	10n	0805	Capacitor	Murata	GRM216R71H103JA01D	ANY	8820090

C31	1uf	0805	Capacitor	Murata	GRM216R61C105KA88D	ANY	1845744
C32	10uf	1206	Capacitor	AVX	12063D106KAT2A	ANY	1833825
C33	10uf	1206	Capacitor	AVX	12063D106KAT2A	ANY	1833825
C34	10n	0805	Capacitor	Murata	GRM216R71H103JA01D	ANY	8820090
C35	1uF	0805	Capacitor	Murata	GRM216R61C105KA88D	ANY	1845744
C36	10uF	1206	Capacitor	AVX	12063D106KAT2A	ANY	1833825
C37	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C38	1pF	0805	Capacitor	ATC	600F1R0BT 250XT	THIS	
C39	1pF	0805	Capacitor	ATC	600F1R0BT 250XT	THIS	
C40	1pF	0805	Capacitor	ATC	600F1R0BT 250XT	THIS	
C41	1pF	0805	Capacitor	ATC	600F1R0BT 250XT	THIS	
C42	100pF	0805	Capacitor	Murata	GRM2165C1H101JA01D	THIS	1828933
C43	10uF	1206	Capacitor	AVX	12063D106KAT2A	ANY	1833825
C44	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	ANY	1828928
C45	100n	0805	Capacitor	Murata	GRM21BR71E104KA01L	ANY	1828928
D1	LED	LED-OS	LED	OSRAM	LTA67C-S2U1-35-Z	THIS	1226378
D2	LED_grøn	LED-OS	LED	OSRAM	LTA67C-S2U1-35-Z	THIS	1226378
FB1	BLM21BB221SH1D	0805	Ferritebead	Murata	BLM21BB221SH1D	ANY	1515629
FB2	BLM21BB221SH1D	0805	Ferritebead	Murata	BLM21BB221SH1D	ANY	1515629
IC1	ATMEGA 328	TQFP32		Atmel	ATMEGA328	THIS	1972086
IC2	ADF4107	TSSOP16	PLL	Analog Devices	ADF4107	THIS	
IC3	LP2992AIM5-3.3	SOT23-5	Voltage regulator	National Semi	LP2992AIM5-3.3	THIS	1469139
IC4	LP2992AIM5-3.3	SOT23-5	Voltage regulator	National Semi	LP2992AIM5-3.3	THIS	1469139
IC5	LM2940S-5	D-PAK	Voltage regulator	National Semi	LM2940S-5	THIS	9494448
IC6	VNA-25+	VNA-25+	Amplifier	Mini Circuit	VNA-25+	THIS	
IC7	FT232RL	SSOP28	USB Converter	FTDI	FT232RL	THIS	1146032
IC8	SN74CBTD3305C	SO-8	Switch	Texas	SN74CBTD3305C	THIS	1750317
J1	CON2	MS2	Connector	Molex	22-29-2021	ANY	1360130
J2	CON6	DUAL6	Connector	TE	826469-3	ANY	9688927
J3	GP1FAV51TK0F	FO	Fiber optic	Sharp	GP1FAV51TK0F	THIS	1618495
J4	BNC	BNC-2	BNC	Greenpar	1-1337543-0	ANY	1020955
J5	SMA	SMA	SMA	Multicomp	19-49-5-TGG	ANY	1169632
J6	USB	USB-6	Connector	TE	AMP - 292304-2 - USB TYPE B	ANY	1557590
L1	A03T_8nH	IND-AIRSPRING	Inductor	Coilcraft	A03T_8nH	THIS	
L2	A03T_8nH	IND-AIRSPRING	Inductor	Coilcraft	A03T_8nH	THIS	
R1	5K1	0805	Resistor	Multicomp	MC 0.1W 0805 1% 5K1	ANY	9333320

R2	51	0805	Resistor	Multicomp	MC 0.1W 0805 1% 51R	ANY	9333355
R3	51	0805	Resistor	Multicomp	MC 0.1W 0805 1% 51R	ANY	9333355
R4	1K	0805	Resistor	Multicomp	MC 0.1W 0805 1% 1K	ANY	9332383
R5	150	0805	Resistor	Multicomp	MC 0.1W 0805 1% 150R	ANY	9332596
R6	150	0805	Resistor	Multicomp	MC 0.1W 0805 1% 150R	ANY	9332596
R7	150	0805	Resistor	Multicomp	MC 0.1W 0805 1% 150R	ANY	9332596
R8	150	0805	Resistor	Multicomp	MC 0.1W 0805 1% 150R	ANY	9332596
R9	1k	0805	Resistor	Multicomp	MC 0.1W 0805 1% 1K	ANY	9332383
R10	180	0805	Resistor	Multicomp	MC 0.1W 0805 1% 180R	ANY	9332707
R11	82	0805	Resistor	Multicomp	MC 0.1W 0805 1% 82R	ANY	9333614
R12	100	0805	Resistor	Multicomp	MC 0.1W 0805 1% 100R	ANY	9332375
R13	560	1206	Resistor	Vishay	CRCW1206560RFKEAHP	ANY	1739009
R14		0805	Resistor	Multicomp	MC 0.1W 0805 1% 0R	ANY	9333681
R15		0805	Resistor	Multicomp	MC 0.1W 0805 1% 0R	ANY	9333681
R16	NM	0805	Resistor			ANY	
R17	NM	0805	Resistor			ANY	
R18	NM	0805	Resistor			ANY	
R19	2R2	0805	Resistor	Multicomp	MC 0.1W 0805 1% 2R2	ANY	9332855
R20	270	0805	Resistor	Multicomp	MC 0.1W 0805 1% 270R	ANY	9332936
R21	NM	0805	Resistor			ANY	
R22	NM	0805	Resistor			ANY	
R23	NM	0805	Resistor			ANY	
R24	NM	0805	Resistor			ANY	
R25	10K	0805	Resistor	Multicomp	MC 0.1W 0805 1% 10K	ANY	9332391
SP1	SCN-2-11	FV1206-1	Wilkinson divider	Mini Circuit	SCN-2-11	THIS	
T1	BC847	SOT23	NPN Transistor	ON Semi	BC847BLT1G	ANY	1653607
TR1	TC1-1T+	AT224	Transformer	Mini Circuit	TC1-1T+	THIS	
VCO1	CVCO55CX-1000-1000	VCO-1/2"	VCO	Crystex	CVCO55CX-1000-1000	THIS	
X1	8MHz	XTALSMX	Crystal	Vishay	XT49M-8M	ANY	1611765
PCB	Print					THIS	