

**GMSN! Pure VCO BoM 20161102**

Qty	RefDes	Description	Value	Manufacturer	Manufacturer P/N	RS P/N	Mouser P/N	Package	Other Vendor	Other P/N	Cost	Total Cost
2	D1, D2	Diode	STTH102A	Generic		485-8465	511-STTH102A	SMADIODE			£0.18	£0.36
2	D3, D4	Diode	1N914	Generic		805-1021	512-1N914BWS	SOD-323			£0.03	£0.05
1	R30	Resistor, 1%	0R	Generic		901-3664	603-RC0805FR-070RL	R0805			£0.01	£0.01
3	R5, R27, R39	Resistor, 1%	100K	Generic		223-0691	603-RC0805FR-07100KL	R0805			£0.01	£0.02
4	R13, R18, R19, R26	Resistor, 1%	10K	Generic		901-3692	603-RC0805FR-0710KL	R0805			£0.01	£0.06
1	R38	Resistor, 1%	120K	Generic		679-0841	603-RC0805FR-07120KL	R0805			£0.01	£0.01
1	R1	Resistor, 1%	150K	Generic		223-0714	603-RC0805FR-07150KL	R0805			£0.02	£0.02
1	R11	Resistor, 1%	15K	Generic		223-0584	603-RC0805FR-0715KL	R0805			£0.00	£0.00
1	R23	Resistor, 1%	19K1	Generic		679-0970	603-RC0805FR-0719K1L	R0805			£0.01	£0.01
1	R32	Resistor, 1%	1K3	Generic		679-0992	603-RC0805FR-071K3L	R0805			£0.01	£0.01
1	R24	Resistor, 1%	1K5	Generic		679-1014	603-RC0805FR-071K5L	R0805			£0.01	£0.01
1	R31	Resistor, 1%	20k	Generic		810-1748	603-RC0805FR-0720kL	R0805			£0.01	£0.01
3	R12, R20, R21	Resistor, 1%	22K	Generic		223-0607	603-RC0805FR-0722KL	R0805			£0.00	£0.01
1	R28	Resistor, 1%	27K	Generic		223-0613	603-RC0805FR-0727KL	R0805			£0.00	£0.00
2	R25, R33	Resistor, 1%	2K	Generic		901-3686	603-RC0805FR-072KL	R0805			£0.01	£0.03
1	R34	Resistor, 1%	2K2	Generic		901-3695	603-RC0805FR-072K2L	R0805			£0.01	£0.01
2	R9, R40	Resistor, 1%	2M	Generic		679-1235	603-RC0805FR-072ML	R0805			£0.03	£0.06
1	R2	Resistor, 1%	2M2	Generic		679-1238	603-RC0805FR-072M2L	R0805			£0.02	£0.02
1	R4	Resistor, 1%	390R	Generic		679-1320	603-RC0805FR-07390RL	R0805			£0.01	£0.01
2	R14, R37	Resistor, 1%	39K	Generic		810-1827	603-RC0805FR-0739KL	R0805			£0.02	£0.05
3	R35, R41, R42	Resistor, 1%	3K3	Generic		679-1351	603-RC0805FR-073K3L	R0805			£0.01	£0.02
1	R8	Resistor, 1%	560K	Generic		679-1544	603-RC0805FR-07560KL	R0805			£0.01	£0.01
1	R16	Resistor, 1%	56K	Generic		679-1550	603-RC0805FR-0756KL	R0805			£0.01	£0.01
1	R17	Resistor, 1%	5K6	Generic		679-1572	603-RC0805FR-075K6L	R0805			£0.01	£0.01
1	R10	Resistor, 1%	680R	Generic		679-1614	603-RC0805FR-07680RL	R0805			£0.01	£0.01
1	R36	Resistor, 1%	9K1	Generic		679-1755	603-RC0805FR-079K1L	R0805			£0.02	£0.02
1	C7	Multilayer Ceramic Capacitor	0.01u	Generic		915-9246	80-C0805C103K5G	C0805K			£0.08	£0.08
6	C9, C10, C11, C12, C13, C14	Multilayer Ceramic Capacitor	0.1u	Generic		669-8877	80-C0805C104M5R	C0805K			£0.01	£0.04
1	C8	Multilayer Ceramic Capacitor	1000p	Generic		802-9958	80-C0805C102J5G	C0805K			£0.01	£0.01
2	C3, C5	Multilayer Ceramic Capacitor	100p	Generic		461-3997	80-C0805C101J5G	C0805K			£0.01	£0.01
1	C6	Multilayer Ceramic Capacitor	22p	Generic		464-6587	80-C0805C220J1G	C0805K			£0.02	£0.02
1	C4	PolyFilm Capacitor	2n2	Generic		334-114	871-B32529C6222J	POLY_CAP			£0.02	£0.02
2	C1, C2	Electrolytic Capacitor	10u	Generic		737-9704	80-EDK106M050A9GAA	153CLV-0505			£0.03	£0.05
1	R0	2k 3300ppm Tempco	2K	Akaneohm	LT16S202F33			RESISTOR_TC	Thonk		1.05	£1.05
1	T1	Transistor Pair	DMMT3904W-7-F	Diodes Inc	DMMT3904W-7-F	751-4127	621-DMMT3904W-F	SOT-363			£0.18	£0.18
1	T2	RF JFET N Ch	N_CHN	Fairchild	MMBFJ309	806-4320	512-MMBFJ309	N_CHN			£0.19	£0.19
1	U3	TL072	DUAL_OPAMP	Texas Instruments	TL072ACDR	661-0054	595-TL072ACDR	DUAL_OPAMP			£0.47	£0.47
2	U1, U2	TL074	QUAD_OPAMP	Texas Instruments	TL074IDR	661-0076	595-TL074IDR	QUAD_OPAMP			£0.11	£0.22
1	JP1	2x5 Shrouded Header	M05X2SHD	Generic			710-61201021621	2X5-SHROUDED	Rapid	19-0035	0.17	£0.17
1	Panel	Panel		GMSN!	m-p-vco-v2-panel						5	£5.00
5	COARSE, FINE, FM_ATT, PWM_ATT, PWM_POT	Alpha Vertical Potentiometer	B100K	Alpha				Q-POT	Thonk		1.42	£7.10
7	1V/OCT, LIN-FM, PULSE, PWM, SAW, SYNC, TRI	Thonkiconn - PJ301M-12		Thonk	PJ301M-12			S_JACK	Thonk		0.39	£2.73
2	TR2, TR3	25 Turn Trimptot ***	100K	Generic		521-9653	652-3296W-1-104LF	TRIM_3269W			£1.65	£3.30
1	TR1	25 Turn Trimptot ***	100R	Generic		521-9625	652-3296W-1-101LF	TRIM_3269W			£1.65	£1.65
5	COARSE, FINE, FM_ATT, PWM_ATT, PWM_POT	Davis 1900h Clone	Black	Davis					Thonk		0.55	£2.75
1		Power Cable	10Pin - 16Pin	Generic	acc-cable-pwr-10-16						0.5	£0.50
4		Machine Screw	M3 6mm	Generic	acc-screw-m3-6mm						0.02	£0.08
Total												£23.50

\*\*\* The trimmer is a through hole component, however the PCB might have pads for an SMD part. Just bend and snip the legs over.