## VT15LS PLL

Created/Date: BL/070217 Advanced Microwave Products

 QC/Apvd/Date:
 BL/070217
 Verdi, NV 89439

 Rev By/Date:
 N/A
 VT15LS Video PLL

 Rev Level:
 A
 Base BOM

Item	Reference Designator	P/N	Desc	Manufacturer	Qty
1	PCB1	VT15LS PLL Rev-A	PCB, VT15LS PLL, Rev-A	LANmark	1
2	R1,33	MCR03J471	Res, 0603, 470 ohms, 5%	Rohm	2
3	R2,14,20,31	MCR03J223	Res, 0603, 22k ohms, 5%	Rohm	4
4	R3	MCR03J102	Res, 0603, 1k ohm, 5%	Rohm	1
5	R4	MCR03F5361	Res, 0603, 5.36k ohms, 1%	Rohm	1
	R5	MCR18J470	Res, 1206, 47 ohms, 5%	Rohm	1
	R10	MCR03J301	Res, 0603, 300 ohms, 5%	Rohm	1
	R11	G32BTB101M	Pot, 3mm, 100 Ohm, 20%, Tocos	Tocos	1
	R12,16	MCR03J912	Res, 0603, 9.1k ohms, 5%	Rohm	2
10	R13,18,32,44	MCR03J103	Res, 0603, 33k ohms, 5%	Rohm	4
	R15	MCR03J333	Res, 0603, 10k ohms, 5%	Rohm	1
	R17,30	MCR03J472	Res, 0603, 4.7k ohms, 5%	Rohm	2
	R19,26,34,42,43	MCR03J220	Res, 0603, 22 ohms, 5%	Rohm	5
	R21,22	MCR03J391	Res, 0603, 390 ohms, 5%	Rohm	2
	R23,25	MCR03J222	Res, 0603, 2.2k ohms, 5%	Rohm	2
	R27,36-39	MCR03J105	Res, 0603, 1M ohms, 5%	Rohm	5
	R28,29	MCR03J104	Res, 0603, 100k ohms, 5%	Rohm	2
	R40,41	MCR03J683	Res, 0603, 68k ohms, 5%	Rohm	2
	R45	MCR03J106	Res, 0603, 10M ohms, 5%	Rohm	1
	C1,3,6,10,23,24,34,44,47	C0603C104M3RAC	Cap, 0603, Ceramic, 100 nF, 20%, 25V, X7R	Kemet	9
	C2	T491A106M016	Cap, A-Case, Tant, 10uF, 16V, 20%	Kemet	1
	C4,7,20,22,25,33,35,36,45	C0603C102M3RAC	Cap, 0603, Ceramic, 1nF, 20%, 25V, X7R	Kemet	9
23	C5,9,12,17,26,27	T491A226M010	Cap, A-Case, Tant, 22uF, 10V, 20%	Kemet	6
	C11,43	C0603C103M3RAC	Cap, 0603, Ceramic, 10 nF, 20%, 25V, X7R	Kemet	2
	C19,21,32,46	C0603C100J5GAC	Cap, 0603, Ceramic, 10pF, 5%, 50V, NPO	Kemet	4
	C28,39,42	278M1602105K	Cap, 0805, Tant, 1uF, 16V, 10%, Matsuo	Matsuo	3
	C29	JR060	Cap, Trim, Ceramic, 2-6pF, 100V, Voltronics	Voltronics	1
	C30	C0603C8R2J5GAC	Cap, 0603, Ceramic, 8.2 pF, 5%, 50V, NPO	Kemet	1
	C31	C0603C680J5GAC	Cap, 0603, Ceramic, 68 pF, 5%, 50V, NPO	Kemet	1
	C37,38	C0603C472M3RAC	Cap, 0603, Ceramic, 4.7 nF, 20%, 25V, X7R	Kemet	2
	C40,41	278M6301225K	Cap, 0805, Tant, 2.2uF, 6.3V, 10%, Matsuo	Matsuo	2
	CR1	MMBD7000	Diode, Dual, Small Signal, SOT-23, Fairchild	Fairchild	1
	Q1	MMBFJ309	Transistor, JFET, N-Channel, SOT-23, Fairchild	Fairchild	1
	Q2	NDT456P	Transistor, MOSFET, P-Channel, SOT-223, Fairchild	Fairchild	1
	Q3	MMBT2222	Transistor, NPN, GP, SOT-23, Fairchild	Fairchild	1
	U2	MIC5213-5.0BC5	IC, Regulator, LDO, 5.0V, 80mA, SC-70, Micrel	Micrel	1
	U3	AD8032ARM	IC, OpAmp, 80 MHz, Rail-Rail, uSOIC-8, Analog Devices	Analog Devices	1
	U4	MB510	IC, Prescaler, 2.7 GHz, /16, 16/17, SOIC-8, Fujitsu	Fujitsu	1
	U5	MC145152DW2	IC, PLL, Dual Modulus, SOIC-28, Freescale	Freescale	1
	U6	LMC7101AIM5	IC, OpAmp, 1 MHz, Rail-to-Rail, SOT-23-5, National	National Semi	1
	Y1	CS5032H16.00MEEQ-UT	, , , , , , , , , , , , , , , , , , , ,	Citizen	1
	J1	A-1J1-CR	Connector, Coax, RF, 3mm SMT, Amphenol	Amphenol	1
43	SW2	2182LPST-ND	Switch, 2-Position SMT DIP, CTS	CTS	1

<sup>\*\*</sup> OMIT C18, R24