

## ITEMS LIST

<b>ASSY</b>	<b>CMD-100502</b>
<b>DATE</b>	<b>27th March 2012</b>
<b>ISSUE</b>	<b>03 DRAFT D</b>
<b>DRAWN</b>	<b>DAVE PATRICK</b>

DNF	Item	Description	Manufacturer	Part Number	Value	Footprint	Designator	Supplier	Supplier PN	Qty
	1	ATEX Mini Target RF PCB	Guidance Microwave Ltd	CMD-100503_03						1
	2									
	3									
	4	Capacitor	Kemet	C0603C103J5RAC-TU	10nF	1608[0603]	C1, C2, C3, C4, C5, C6, C10, C11, C12, C15, C16, C17, C18, C19, C20, C34, C35, C36, C37	Farnell	1650831	19

	5	Capacitor	Kemet	C0402C100J5GACTU	10pF	0402	C49	Farnell	1414571	1
	6	Capacitor	Kemet	C0603C102K1RACTU	1nF	1608[0603]	C47, C48	Farnell	1414606	2
	7	Capacitor	Kemet	C0603C109C5GAC	1pF	1608[0603]	C7, C8, C13, C14, C21, C24, C38, C39, C46	Farnell	1414611	9
	8	Capacitor	Kemet	C0603C105K3PAC	1uF	1608[0603]	C32, C33	Farnell	1288202	2
	9									
	10									
	11	Capacitor	Yageo	CC0402CRNPO9BNR 47	0.47pF	0402_M	C9, C40	Farnell	3019081	2
	12	Header, 7- Pin, Dual row, Right Angle	Multicomp	MC9A22-1434		HDR2X7H	RF_PL1	Farnell	1099246	1
	13	HEXFET Power MOSFET	IR	IRF7201		SO-8_N	Q19	Farnell	9102663	1
	14	HEXFET Power MOSFET	IR	IRF7220		SO-8_N	Q15, Q17	Farnell	9103341	2
	15	IC - IQ Mixer	Hittite	HMC521LC4		LC4_HITTITE	IC1	Hittite	HMC521LC4	1
	16	Inductor	Tyco	36401J10NGTDF	10nH	L0603	L1	Farnell	1174047	1
	17	Inductor	Tyco	36401E1N0ATDF	1nH	0402_M	L2	Farnell	1174118	1
	18									
	19	Microwave Low Noise FET	Eudyna	FHX35LG		LG	Q3, Q4, Q6, Q8, Q22	Sumitomo	FHX35LG	5
	20	NPN General- purpose Transistor	NXP	BC847B		SOT23_N	Q9, Q11, Q16, Q18	Farnell	1081232	4
	21									
	22	PNP General-	NXP	BC857BS_NXP		SOT363_N	Q1, Q2, Q5, Q7, Q21	Farnell	1081247	5

		purpose Double Transistor								
	23	PNP General- purpose Transistor	NXP	BC857B		SOT23_N	Q13, Q14, Q20	Farnell	1081246	3
	24									
	25									
	26	Resistor	Vishay	CRCW0402100RFKE AHP	100R	1005[0402]	R28	Farnell	1738837	1
	27	Resistor	Vishay	CRCW0603100R0FK EAHP	100R	1608[0603]	R2, R4, R8, R15, R81	Farnell	1738891	5
	28	Resistor	Vishay	CRCW060310K0FKE AHP	10k	J1-0603	R22, R76	Farnell	1738918	2
	29	Resistor	Vishay	CRCW060310R0FKE AHP	10R	J1-0603	R40, R43, R45, R52, R55, R57, R77, R78	Farnell	1738878	8
	30									
	31	Resistor	Vishay	CRCW06031K0FKEA HP	1K0	J1-0603	R44, R47, R51, R53	Farnell	1738905	4
	32									
	33	Resistor	Vishay	CRCW060322K0FKE AHP	22K	1608[0603]	R5, R7, R9, R17, R82	Farnell	1738922	5
	34	Resistor	Vishay	CRCW06032K20FKE AHP	2K2	J1-0603	R75	Farnell	1738909	1
	35	Resistor	Vishay	CRCW060333K0FKE AHP	33K	1608[0603]	R11, R12, R19, R20, R84	Farnell	1738924	5
	36	Resistor	Vishay	CRCW06033K00FKE A	3K0	1608[0603]	R1, R3, R14, R16, R80	Farnell	1469790	5
	37									
	38	Resistor	Panasonic	ERJP03F4703V	470K	J1-0603	R59, R60, R64, R65, R71, R72	Farnell	1750709	6
	39	Resistor	Vishay	CRCW0603470R0FK	470R	J1-0603	R42, R48,	Farnell	1738900	6

				EAHP			R49, R54, R66, R67				
	40	Resistor	Vishay	CRCW060347K0FKE AHP	47K	J1-0603	R41, R46, R50, R56, R58, R61, R70	Farnell	1738927	7	
	41	Resistor	Vishay	CRCW06034K70FKE AHP	4K7	J1-0603	R6, R10, R13, R18, R83	Farnell	1738913	5	
	42										
	43										
	44										
	45	Resistor	Vishay	CRCW04022K20FKE AHP	2K2	0402_M	R85, R88, R89, R90, R91	Farnell	1738854	5	
	46										
	47	Schottky Mixer Diode	Avago	HSMS-8101-TR1G		SOT23_L	D1	Farnell	1056851	1	
	A	Test Specification	Guidance Microwave Ltd CMR-1140								
		Components Not Fitted:	C22, C26, C28, C30, C23, C25, C27, C29, C31, U2, U1, R79, R21, R26, R68, R69, R23, R94, R31, R86, R87, R93, R63, R24, R25, R27, R29, R32, R33, R34, R35, R38, R39, R62, R73, R74, R92, R30, R37, R36, D2								
DNF		Capacitor	Kemet		C0603C104K5RAC	100nF	0603	C22, C26, C28	Farnell	1288255	3
DNF		Capacitor	Kemet		C0603C224K3RACT U	220nF	1608[0603]	C30	Farnell	1414626	1
DNF		Capacitor	Kemet		C0603C475K8PAC	4.7uF	1608[0603]	C23, C25, C27, C29, C31	Farnell	1572625	5
DNF		Low Noise, Low Vos, Single Op Amp	Nat Semi		LMV751M5			MF05A_N	U2	Nat Semi	LMV751M5

DNF	Operational Amplifier - Quad	Linear	LT1639CS#PBF		S14_M	U1	Farnell	1330682	1
DNF	Resistor	Vishay	CRCW06030000ZOE A	0R	J1-0603	R79	Farnell	1469739	1
DNF	Resistor	Vishay	CRCW0603100KOFK EAHP	100K	J1-0603	R21	Farnell	1738931	1
DNF	Resistor	Vishay	CRCW0603100ROFK EAHP	100R	J1-0603	R26, R68, R69	Farnell	1738891	3
DNF	Resistor	Vishay	CRCW060310KOFKE AHP	10K	J1-0603	R23	Farnell	1738918	1
DNF	Resistor	Vishay	CRCW060312KFKEA HP	12K	J1-0603	R94	Farnell	1738919	1
DNF	Resistor	Vishay	CRCW0603220RFKE AHP	220R	J1-0603	R31	Farnell	1738895	1
DNF	Resistor			270R	1005[0402]	R86, R87			2
DNF	Resistor	Multicomp	MCHP03W8F3304 T5E	3M3	J1-0603	R93	Farnell	1576332	1
DNF	Resistor	Panasonic	ERJP03F4703V	470K	J1-0603	R63	Farnell	1750709	1
DNF	Resistor	Vishay	CRCW060347KOFKE AHP	47K	J1-0603	R24, R25, R27, R29, R32, R33, R34, R35, R38, R39, R62, R73, R74, R92	Farnell	1738927	14
DNF	Resistor	Vishay	CRCW060356KOFKE AHP	56K	J1-0603	R30	Farnell	1738928	1
DNF	Resistor	Vishay	CRCW0603680ROFK	680R	J1-0603	R37	Farnell	1738903	1

			EAHP						
DNF	Resistor	Vishay	CRCW0603820R0FK EAHP	820R	J1-0603	R36	Farnell	1738904	1
DNF	Schottky Barrier Diode	NXP	BAS40		SOT23_N	D2	Farnell	8734291	1

Changes Issue 03C to 03D:	
PCB issue changed from 02 to 03	
Solder Mask, Fiducial added and IC1 pads increased.	