

PCB Parts List

Product: VECTOR BAR 20 Main PCB
Drawing No: AG2669.D

REV: 06



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A United Dominion Company

Date: 11/20/2002

Page: 1 of 7

Qty.	RD Part Number	Description	Manuf. 1	Manuf. 1 Part No	Manuf. 2	Manuf. 2 Part No	Position(s)
5	30/Y5V4U780-20%16V	4u7 +80-20% 16V Y5V 1206	TDK				C1, C2, C5, C6, C235
1	30/NPO470P2%50V08	470pF 2% 50V NPO 0805					C3
3	30/X7R100N10%16V08	100nF 10% 16V X7R 0805					C4, C68, C145
1	30/NPO1N52%25V08	1n5 2% 25V NPO 0805					C7
1	30/X7R10N5%25V	10nF 5% 25V X7R 1206	AVX-KYOCERA				C8
11	30/X7R39N10%25V08	39nF 10% 25V X7R 0805					C21, C23, C26, C27, C57, C58, C62, C63, C91, C92, C96
3	30/NPO12N5%50V1812	12nF 5% 50V NPO 1812	SYFER				C22, C34, C149
10	30/X7R10N10%25V08	10nF 10% 25V X7R 0805					C25, C29, C30, C39, C40, C42, C47, C55, C64, C81
5	30/X7R33N10%25V08	33nF 10% 25V X7R 0805					C28, C36, C45, C54, C79
82	30/Z5U100N8-2%50V08	100nF +80-20% 50V Z5U 0805	ANY	As Appropriate			C31, C33, C41, C43, C48, C50, C56, C60, C82, C84, C89, C90, C94, C107, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C125, C128, C129, C135, C147, C151, C155, C157, C160, C164, C165, C171, C173, C176, C177, C179, C181, C185, C187, C188, C189, C190, C191, C192, C195, C196, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C213, C214, C216, C219, C220, C221, C222, C223, C224, C225, C226, C229, C230, C231, C232, C233, C234
3	30/NPO8N25%50V10	8n2 5% 50V NPO 1210					C32, C44, C61
5	30/NPO1N02%25V	1n0 2% 25V NPO 1206					C35, C52, C83, C87, C95
3	30/NPO47P5%25V08	47pF 5% 25V NPO 0805	ANY	As Appropriate			C37, C110, C112
11	30/TAJD476K016	47uF 10% 16V TANT CAP CASE D	AVX	TAJD476K016			C38, C99, C124, C136, C137, C138, C139, C143, C144, C215, C217
4	30/TMCA1C105MTR	1uF 20% 16V TANT CAP CASE A	HITACHI	TMCSA1C105M			C80, C85, C93, C194

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FR3

Rev.

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Page: 2 of 7

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11	30/X7R1N010%50V08	1n0 10% 50V X7R 0805	ANY	As Appropriate			C98, C100, C101, C103, C113, C126, C127, C132, C134, C141, C142
2	30/NPO22P5%25V08	22p 5% 25V NPO 0805	ANY	As Appropriate			C102, C104
2	30/X7R47N20%25V08	47nF 20% 25V X7R 0805	ANY	As Appropriate			C130, C131
1	30/TMCMA1D225K	2u2 10% 20V TANT CAP CASE A	HITACHI	TMCMA1D225K			C133
1	30/NPO33P5%25V08	33pF 5% 25V NPO 0805					C140
1	30/X7R22N10%25V08	22nF 10% 25V X7R 0805					C146
1	30/TAJA475K010	4u7 10% 10V TANT CAP CASE A	AVX	TAJA475K010			C193
1	30/NPO220P2%25V	220p 2% 25V NPO 1206					C236
1	25/1312778-1	TNC Panel Socket	TYCO/MACOM	1312778-1			CON1
9	32/BAS16	BAS16 DIODE SOT23	ANY	As Appropriate			D1, D2, D4, D5, D7, D8, D10, D11, D12
3	22/11DQ04	11DQ04 SCHOTTKY DIODE DO41	IR	11DQ04			D3, D6, D9
1	32/BAV99	BAV99 DIODE SOT23	ANY	As Appropriate			DD2
1	26/45202.5	2A5 ANTISURGE (T) SM FUSE	LITTLEFUSE				F1
1	26/MA3-34882	Flux Gate	P.M.E.S.	MA3-34882			FG1
5	33/OP279GS	Dual R-R Hi O/P Current Op-Amp	AD	OP279GS			IC1, IC17, IC21, IC49, IC50
2	33/M74HC04M1	HC04 HEX-INVERTOR	STM	M74HC04M1R			IC2, IC45
1	33/HCF4047BM1	Lo-Pwr M/Stable - Astable M/Vib	STM	HCF4047BM1			IC3
4	33/HCF4053BM1	HCF4053B MUX/DEMUX	STM	HCF4053BM1			IC4, IC5, IC6, IC30
4	33/OP484FS	OP484 QUAD OP-AMP	AD	OP484FS			IC7, IC8, IC14, IC16
1	33/AD1582ART	AD1582 2V5 VOLTAGE REF	A.D.				IC9
1	33/M74HC125M1	Quad Bus Buffer (Tri-State)	STM	M74HC125M1R			IC10
3	33/AD7716BP	AD7716 22BIT ADC	AD	AD7716BP			IC11, IC18, IC26
1	33/M74HC74M1	HC74 DUAL D F/F	STM	M74HC74M1			IC12
1	33/OP284FS	OP284 DUAL OP-AMP	AD	OP284FS			IC13
1	33/M74HC00M1	HC00 QUAD 2 I/P NAND	STM	M74HC00M1R			IC31
1	33/74AC00M	AC00 QUAD 2 I/P NAND	STM	74AC00M			IC32
1	33/74AC32M	AC32 QUAD 2 I/P OR	STM	74AC32M			IC33
2	33/74AC574M	Octal D-Type Flip-Flop (Tri-State O/P - Non-Inv)	STM	74AC574M			IC34, IC37
2	33/IS61C1024-20J	128K x 8 H.S. CMOS SRAM	ISSI	IS61C1024-20J			IC35, IC38
1	33/TMS320C50PQA57	TMS320C50 DSP (PQFP132)	TI	TMS320C50PQA57			IC36
1	33/M93C56-MN6	2Kbit Serial Microwire Bus EEPROM	STM	M93C56-MN6			IC39

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FR3

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Radiodetection
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Date: 11/20/2002

Page: 3 of 7

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1	33/HM628128BLFP-8	128Kx8 HM628128BLFP-8 SRAM	HITACHI	HM628128BLFP-8			IC41
1	33/HD6413002F-16	H8/3002 Micro-Processor	HITACHI	HD6413002F-16			IC42
1	33/LT1180AISW	LoPwr 5V RS232 Dual Drv/Rx (10kV ESD)	Lin. Tech.	LT1180AISW			IC43
1	33/HCF4093BM1	HCF4093BM QUAD SCHMITT	STM	HCF4093BM1			IC44
1	33/UC39432D	UC39432 ANALOGUE CONT.	UNITRODE	UC39432D			IC46
1	26/NL252018T-R47J	470nH 5% SM INDUCTOR 1008	TDK	NL252018T-R47J			L1
2	26/74279406	56uH Line Choke	Wurth Elektronik	74279406			L2, L4
1	09/AG1881W1	WOUND TOROIDAL TRANSFORMER	Made to Drg.	AG1881W1			L3
8	26/SIMID04-2U2	2u2 10% SM INDUCTOR (1008)	SEIMENS	B82494-A1222-K			L5, L6, L7, L8, L9, L10, L11, L12
2	25/TSW-110-08-LD-RA	HEADER TOBY MALE RIGHT ANGLE 0.1" 2X10	TOBY				PL1, PL2
1	25/MKS3804-6-0-404	MKS3804 STOCKO 4WAY LOCKING	STOCKO				PL3
2	25/MKS3812-6-0-1212	MKS3812 STOCKO 0.1" R/A LOCKING 12 WAY	STOCKO				PL7, PL12
1	25/TSW-113-07-LD	HEADER TOBY VERTICAL 0.1" 2X13	TOBY				PL8
5	31/CT-1R5-5%-08	1R5 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R1, R4, R11, R14, R210
3	31/CT-4k7-1%-08	4k7 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R2, R158, R173
1	31/CT-2k7-1%-08	2k7 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R3
2	31/CT-3k9-1%-08	3k9 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R5, R202
18	31/CT-47k-1%-08	47k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R6, R33, R43, R44, R46, R52, R54, R55, R57, R63, R66, R73, R74, R77, R107, R110, R159, R163
1	31/CT-39k-1%-08	39k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R7
47	31/CT-10k-1%-08	10k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R8, R10, R12, R37, R38, R39, R40, R42, R50, R53, R60, R62, R70, R72, R80, R81, R82, R83, R84, R91, R99, R106, R114, R125, R126, R128, R131, R133, R149, R150, R151, R153, R154, R155, R156, R164, R165, R166, R167, R168, R169, R170, R171, R172, R180, R181, R207
6	31/CT-18k-1%-08	18k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R9, R48, R59, R69, R79, R113
3	31/CT-2k2-5%-08	2k2 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R13, R193, R197
2	31/CT-820k-5%-08	820k 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R15, R196

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FR3

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Product: VECTOR BAR 20 Main PCB
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REV: 06



Date: 11/20/2002

Page: 4 of 7

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8	31/CT-1k0-1%-08	1k0 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R16, R49, R58, R68, R78, R112, R185, R201
35	31/CT-0R08	0R0 LINK 0805 TILE RESISTOR	ANY	As Appropriate			R17, R20, R22, R23, R25, R27, R30, R35, R64, R67, R85, R88, R92, R95, R98, R100, R101, R104, R116, R118, R121, R124, R142, R143, R146, R148, R161, R162, R174, R211, R212, R213, R222, R223, R237
2	31/CT-160R-1%-08	160R 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R32, R47
5	31/CT-1k6-1%-08	1k6 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R41, R51, R61, R71, R105
3	31/CT-200R-1%-08	200R 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R45, R56, R76
4	31/CT-100R-5%-08	100R 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R109, R111, R117, R132
1	31/CT-1k8-1%-08	1k8 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R119
8	31/CT-120R-1%-08	120R 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R134, R135, R136, R137, R138, R139, R140, R141
1	31/CT-300R-1%-08	300R 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R145
1	31/CT-4k7-5%-08	4k7 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R157
1	31/CT-30R-5%-08	30R 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R175
2	31/CT-180R-5%-08	180R 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R176, R177
12	31/CT-100k-5%-08	100k 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R179, R186, R187, R188, R189, R191, R192, R194, R195, R198, R199, R200
1	31/CT-100k-1%-08	100k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R182
3	31/CT-20k-5%-08	20k 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R183, R184, R190
1	31/CT-160k-1%-08	160k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R203
1	31/CT-56k-1%-08	56k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R204
1	31/CT-470R-5%-08	470R 5% 200PPM 0805 TILE RESISTOR	ANY	As Appropriate			R205
2	31/CT-11k-1%-08	11k 1% 100PPM 0805 TILE RESISTOR	Any	As Appropriate			R208, R209
3	34/ZVN3306F	ZVN3306F N-Chan MOSFET (SOT23)	ZETEX	ZVN3306F			TR7, TR9, TR14
3	34/ZVP3306F	ZVP3306F P-CHAN MOSFET SOT23	ZETEX				TR8, TR11, TR17
3	34/BCX19	BCX19 NPN TRANSISTOR SOT23					TR10, TR12, TR15
2	34/IRF7303	IRF7303 DUAL N CHAN FET	Int.Rect.				TR13, TR16
1	23/TXM-418-5	418.00MHz UHF Tx Module	RADIOMETRIX	TXM-418-5			TX1

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FR3

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Date: 11/20/2002

Page: 5 of 7

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1	27/40.0MHz	40MHz CRYSTAL OSCILLATOR	IQD	X357H			XL1
1	27/7.340032MHz	7.340032MHz XTAL HC49U (20/50/10/12)					XL2
1	27/16.0MHZ/B	16.0MHz XTAL HC49U 4mm (30/50/20/30)					XL3
1	32/BZX84C10V	BZX84C10V ZENER DIODE					ZD1
2	32/BZX84C6V2	BZX84C6V2 ZENER DIODE					ZD2, ZD4
1	32/BZX84C6V8	BZX84C6V8 ZENER DIODE	ANY	BZX84C6V8			ZD3
	PROGRAMMABLE COMPONENTS						
1	09/AG2685.S2	512Kx8 FLASH MEMORY	AMD	AM29F040B-120JC			IC40
	TO BE FITTED BY:- TEST/SUB-CONTRACT (DELETE AS APPICABLE)						
	MISCELLANEOUS COMPONENTS						
1	08/AG2669	Iss02					PCB
4	13/M3X8AASS	M3 X 8 SOCKET CAP STST					TO SECURE CON1
A/R	12/7/0.2RED	PTFE INS. WIRE (RED)					CON1 TO PCB
1	13/001-0030	M3 X 12 NYLON SCREW	HEYCO				L3 FIXING
1	14/008-0729	M3 NYLON NUT	HEYCO				L3 FIXING
2	16/011-0765	M3 NYLON WASHER	HEYCO				L3 FIXING

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FR3

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Rev.

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REV: 06



Radiodetection
A United Dominion Company

Date: 11/20/2002

Page: 6 of 7

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1	04/RD0913.N26	FOAM PAD (19x15mm)					TO SECURE XL2 TO PCB
4	04/4226	GROMMET	P&R GROMMETS Ltd				FIT TO CUT-OUTS AT BOARD EDGE
A/R	12/RS399-978	HEATSHRINK SLEEVE(CLEAR)					FIT TO FG1
4	13/M3X8AASS	M3 X 8 SOCKET CAP STST					TO SECURE CON1
4	14/M3NSTBZP	M3 STEEL BZP NYLOC NUT					TO SECURE CON1 TO PCB
A/R	12/TCW24	24SWG TINNED COPPER WIRE					TO SECURE XL2 TO PCB
	NON FITTED COMPONENTS						
91							C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C24, C46, C49, C51, C53, C59, C65, C66, C67, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C86, C97, C105, IC15, IC48, L13, L14, LK1, LK2, PL4, PL5, PL6, PL9, PL10, PL13, R18, R19, R21, R24, R26, R28, R29, R31, R34, R36, R65, R75, R86, R87, R89, R90, R93, R94, R96, R97, R102, R103, R108, R115, R120, R122, R123, R127, R129, R130, R144, R147, R152, R160, R178, R206, R214, R218, R221, R224, R225, R233, R234, R238, SP1

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Page: 7 of 7

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	NON FITTED TEST POINTS						
298							TP1-TP272, TP275-TP276, TP278-TP301
	NOTES:						
	ASSEMBLY & SOLDERING TO MEET REQUIREMENTS OF IPC-A-610 CLASS 3						
	FOR ASSEMBLY OF CON1 AND L3 SEE DRG. AG2669.FB1						
	FOR FITTING OF HEATSHRINK TO FG1 SEE DRG. AG1882.FB1						
	IC35/38 OPTIONAL PARTS IS61C256AH-20J						

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FR3

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