

PCA, INTERNAL DESIGN 000262-200 [PCA,ERU RF,SP,PCS]

BOM

Rev	02B EC-00870	Effective from	25-Jan-2002 00:00:00	to			
Item Number	Part Description	Rev	Line Num	Qty	Ref Des	BOM Notes	
000031-10R0	RES,SMD,10.0R,5%, 0603	A MC-0047 4	3	3	R42, R50, R51		
000031-180	RES,SMD,18R,5%, 0603	B MC-0054 6	4	1	R112		
000031-270R	RES,SMD,270R,5%, 0603	A MC-0054 6	5	1	R108		
000031-470R	RES,SMD,470R,5%, 0603	A MC-0054 7	6	1	R2		
000031-4K70	RES,SMD,4.7K,5%, 0603	A MC-0054 7	7	1	R1		
000031-680	RES,SMD,68R,5%, 0603	B MC-0054 7	8	1	R45		
000035-100R	RES,SMD,100R,1%, 0603	A MC-0054 8	9	6	R64, R85, R106, R107, R109, R110		
000035-10K0	RES,SMD,10.0K,1%, 0603	A MC-0054 8	10	29	R4-R24, R27, R30, R32, R71, R75, R81, R82, R87		
000038-22R0	RES,SMD,22.0R,5%, 0603	A MC-0054 9	11	4	R54, R76-R78		
000038-47K0	RES,SMD,47.0K,5%, 0603	A MC-0054 9	13	1	R3		
000038-510R	RES,SMD,510R,5%, 0603	A MC-0054 9	14	6	R43, R52, R53, R66, R67, R88		
000039-1K00	RES,SMD,1.00K,1%, 0603	A MC-0047 6	15	11	R25, R40, R41, R44, R68, R84, R100, R102-R105		
000039-1M00	RES,SMD,1M,1%,0603	A MC-0055 0	16	5	R89, R91, R92, R96, R97		
000039-20K0	RES,SMD,20.0K,1%, 0603	A MC-0055 1	17	1	R90		
000039-24K9	RES,SMD,24.9K,1%, 0603	A MC-0047 7	18	1	R33		
000039-2K00	RES,SMD,2.00K,1%, 0603	A MC-0055 1	19	4	R35, R37, R62, R101		
000039-499R	RES,SMD,499R,1%, 0603	A MC-0055 2	20	4	R28, R29, R113, R114		
000039-4K99	RES,SMD,4.99K,1%, 0603	A MC-0055 2	21	2	R56, R111		
000039-7K50	RES,SMD,7.50K,1%, 0603	A MC-0071 9	22	1	R55		
000080-100P	CAP,CER_NPO,SMD, 100PF,50V,5%,0603	A MC-0034 1	23	1	C89		

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000080-103	CAP,CER_X7R,SMD, 0.01UF,50V,5%,0603	A MC-0063 5	24	12	C21, C35, C40, C48, C50, C52, C56, C65, C71, C73, C76, C79	
000080-22P0	CAP,CER_NPO,SMD, 22PF,50V,5%,0603	A MC-0041 8	25	2	C1, C2	
000080-270P	CAP,CER_NPO,SMD, 270PF,50V,5%,0603	A MC-0041 8	26	1	C94	
000080-33P0	CAP,CER_NPO,SMD, 33PF,50V,5%,0603	A MC-0041 8	27	25	C18, C19, C22, C23, C75, C83, C84, C98-C114, C116	
000081-102	CAP,CER_X7R,SMD, 1000PF,50V,10%,0603	A MC-0042 0	28	1	C14	
000081-104	CAP,CER_X7R,SMD, 0.1UF,16V,10%,0603	A MC-0042 0	29	18	C3-C6, C8-C10, C13, C15-C17, C20, C74, C78, C86-C88, C91	
000083-1U00	CAP,CER_X7R,SMD, 1UF,10V,20%,0805	A EC-0007 0	32	1	C46	
000084-224	CAP,CER_Y5V,SMD, 0.22UF,50V,80/20%, 0805	A MC-0048 9	33	1	C42	
000086-10P0	CAP,CER_NPO,SMD, 10PF,50V,+/-0.25PF, 0603	B MC-0062 1	34	7	C37-C39, C62, C66, C68, C69	
000086-3P90	CAP,CER_NPO,SMD, 3.9PF,50V,+/-0.25PF, 0603	A MC-0062 2	35	4	C33, C36, C70, C72	
000086-4P70	CAP,CER_NPO,SMD, 4.7PF,50V,+/-0.25PF, 0603	A MC-0036 7	36	1	C26	
000091-10U0	CAP,TAN,SMD,10UF, 16V,20%,3528	A MC-0042 5	37	1	C24	
000095-47U0	CAP,TAN,SMD,47UF, 10V,10%,6032	A MC-0070 1	38	1	C7	
000099-100U	CAP,TAN,SMD,100UF, 10V,20%,7343,LOW ESR	A MC-0073 6	39	2	C12, C45	
000129-000	XTAL,20MHZ,20PF LOAD CAP,50PPM,5MM TALL	A MC-0063 5	40	1	X1	
000135-000	SWITCH,KEY,GULL WING,100 MA,24VDC	A MC-0063 5	41	1	S1	
000161-000	IC,AD7814,10-BIT,DIG,A TEMP SENSOR,USOIC-8	A MC-0037 5	42	1	U4	
000262-000	PCB,ERU RF,SP,PCS	02B EC-0087 0	43	1	PCB1	
000365-12N0	IND,CHIP,CER,SMD, RF,12NH,2%,0603	A MC-0064 0	44	1	L11	
000377-000	IC,RF,FILTER,4 POLE,CASE	A MC-0039 9	45	1	F2	
000397-000	MOSFET,P-CH,1.25W, 2.5V,SOT23	A MC-0063 7	46	1	Q6	
000466-000	IC,DS2401,SILICON SERIAL NUMBER,TSOC-6	A MC-0060 1	47	1	U1	

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000482-000	XSTR,NPN SMALL SIGNAL - GENERIC 3906	A MC-0039 8	48	5	Q1-Q4, Q10	
000542-000	DUPLEXER,1880MHZ TX,1960MHZ RX,10 POLES,PCS	A MC-0073 0	49	2	F1, F3	
000552-000	IC,LM6482,DUAL OP AMP,RAIL-RAIL,SO8, NARROW	A EC-0007 0	50	2	U8, U15	
000559-000	XSTR,MESFET, NE65003,79A	A MC-0037 5	51	1	Q8	
000571-000	CAP,CER_X5R,SMD, 22UF,10V,20%,1812	A MC-0042 8	52	2	C47, C49	
000626-000	CAP,CER_X7R,SMD, 0.1UF,50V,20%,0805	A MC-0062 3	53	2	C41, C96	
000646-000	RES,SMD,100K,1%, 0603	A MC-0048 3	54	1	R95	
000652-000	RES,SMD,3.32K,1%, 0603	A MC-0048 4	55	1	R26	
000695-000	DIODE,SWITCHING, SINGLE,SOT-23	A MC-0037 1	56	1	D2	
000705-000	RES,SMD,49.9K,1%, 0603	A MC-0072 0	57	3	R31, R94, R98	
000723-000	IND,CHIP,CER,SMD, RF,18NH,5%,0603	A MC-0049 9	59	4	L16, L17, L19, L20	
000725-000	RES,SMD,150R,5%, 0603	A MC-0056 0	60	5	R58, R59, R61, R72, R74	
000727-000	XSTR,NPN,SST3904, SST3	A MC-0037 5	61	2	Q5, Q7	
000731-000	CAP,CER_NPO,SMD, 15PF,50V,5%,0603	A MC-0062 5	62	4	C80, C90, C92, C93	
000738-000	RES,SMD,0.47R,1%, 0805,1/4W	A MC-0056 0	63	1	R36	
000740-000	RES,SMD,121R,1%, 0603	A MC-0056 0	64	1	R39	
000752-000	RES,SMD,300R,5%, 0603	A MC-0056 1	65	1	R93	
000753-000	RES,SMD,30.0R,5%, 0603	A MC-0056 1	66	1	R99	
000809-000	DIODE,PIN,SMP1320	A EC-0009 3	67	4	D7-D10	
001002-000	CAP,CER_NPO,SMD, 0.5PF,50V,+/-0.25PF, 0603	A MC-0062 5	69	1	C31	
001031-000	CAP,CER_NPO,SMD, 2.2PF,250V,+/-0.1PF, 0603,LOW ESR	A MC-0071 6	70	1	C25	
001032-000	CAP,CER_NPO,SMD, 4.7PF,250V,+/-0.05PF, 0603,LOW ESR	A MC-0071 6	71	1	C28	

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001033-000	CAP,CER_NPO,SMD, 5.6PF,250V,+/-0.05PF, 0603,LOW ESR	A MC-0071 6	72	1	C29	
001109-000	IND,POWER,SMD, UNSHIELDED,33UH, 20%,2.1A	A MC-0042 8	73	1	L3	
001222-000	CAP,CER_NPO,SMD, 330PF,50V,5%,0603	A MC-0062 7	75	1	C77	
001302-000	IND,SMD,33NH,5%, 0603	A EC-0023 6	76	6	L5, L14, L15, L18, L21, L22	
001305-000	IND,SMD,100NH,5%, 1812, MIDISPRING_AIR_CO RE	A EC-0023 6	77	2	L12, L13	
001306-000	IND,SMD,390NH,5%, 2520	A EC-0023 6	78	1	L10	
001307-000	DIODE,3X SMALL SIGNAL SI	A MC-0049 7	79	1	D5	
001308-000	IC,DUAL COMPARATOR	A MC-0049 7	80	1	U13	
001310-000	IC,NAND GATE,2-INPUT,QUAD, HCMOS,SOIC-14	A MC-0037 5	81	1	U14	
001312-000	DIODE,3A SCHOTTKY RECTIFIER	A MC-0071 0	82	1	D3	
001313-000	XTAL,8MHZ CERAMIC RESONATOR	A EC-0023 6	83	1	Y1	
001317-000	CAP,CER_Z5U,SMD, 1UF,50V,20%,1206	A EC-0023 6	84	1	C97	
001318-000	CAP,CER_NPO,SMD, 3300PF,100V,5%,1206	A MC-0062 7	85	1	C95	
001320-000	RES,SMD,56.2K,1%, 0603	A MC-0056 3	86	2	R80, R83	
001321-000	RES,SMD,10M,5%, 0603	A MC-0056 4	87	1	R79	
001322-000	CAP,CER_NPO,SMD, 390PF,100V,5%,0805	A MC-0062 7	88	1	C85	
001323-000	CAP,CER_NPO,SMD, 560PF,50V,5%,0805	A MC-0062 7	89	1	C81	
001325-000	CAP,CER_NPO,SMD, 56PF,50V,5%,0603	A MC-0062 8	90	1	C82	
001363-000	IC,8-BIT ELECTRONIC POT WI UP/DN COUNTER INTERFACE	A MC-0071 0	92	1	U9	
001366-000	RES,SMD,40.2K,1%, 0603	A MC-0056 4	93	1	R34	
001390-000	DIODE,DUAL SCHOTTKY ARRAY,W/GND BAR	A EC-0092 6	94	1	D6	
001392-000	RES,SMD,100R,1%, 0402	A MC-0056 5	96	2	R69, R70	

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001407-000	IC,LOW NOISE HEMT FET	A EC-0065 6	97	1	Q9	
001408-000	CAP,CER_NPO,SMD, 33PF,50V,5%,0402	A MC-0062 8	98	2	C32, C34	
001410-000	CAP,TAN,15UF,35V, 20%,7343,LOW ESR	A MC-0071 6	99	1	C43	
001411-000	IND,SMD,5.6NH,5%, 0603	A EC-0092 6	100	1	L1	
001412-000	IND,SMD,6.8NH,5%, 0603	A EC-0092 6	101	1	L2	
001414-000	IND,SMD,10NH,5%, 0603	A EC-0092 6	102	1	L4	
001415-000	IND,SMD,15NH,5%, 0603	A EC-0092 6	103	1	L7	
001416-000	IND,SMD,3.9NH,5%, 0603	A EC-0092 6	104	2	L8, L9	
001417-000	IC,LDO REGULATOR,5.0V FIXED,SOT223	A MC-0071 0	105	1	U7	
001418-000	IC,STEP-DOWN SWITCHING REGULATOR,32V IN,500KHZ,4.5A	A EC-0092 6	106	1	U10	
001419-000	IC,INVERTING CHARGE PUMP,200KHZ CLOCK5	A MC-0037	107	1	U11	
001420-000	IC, DECODER/DEMULTIPLEXER,HCMOS, SOIC-16	A MC-0039 8	108	1	U6	
001421-000	XSTR,MICROWAVE NPN	A MC-0071 0	109	2	Q11, Q12	
001422-000	RES,SMD,33R,5%, 0402	A MC-0056 5	110	2	R46, R47	
001424-000	IC,3V GAAS W-CDMA POWER AMPLIFIER	A EC-0092 6	112	1	U12	
001425-000	CONN,TYPE G RF CONNECTOR,PCB THROUGH HOLE	A EC-0067 4	113	1	J3	
001426-000	DIODE,PIN WITH DUAL ANODE PINS,SOT-23	A EC-0092 6	114	1	D4	
001427-000	DIODE,PIN WITH DUAL ANODE PINS,SOT23	A EC-0092 6	115	1	D1	
001433-000	IC,5-BIT,15DB 4GHZ GAAS ATTENUATOR,MS10	A EC-0092 6	116	1	U16	
001435-000	IC,SHIFT REGISTER,HCMOS, TSSOP-16	A MC-0039 8	117	1	U5	
001440-000	IC,D-A CONV,8-BIT,IN SOT23	A MC-0037 5	118	1	U2	
001511-000	IC,UPROC,20MHZ, 8KX14,FLASH,28-PIN, SOIC	A EC-0092 6	119	1	U3	

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001532-000	CAP,CER_NPO,SMD, 2.2PF,50V,+/-0.25PF, 0402	A MC-0062 8	120	1	C58	
001534-000	CAP,CER_NPO,SMD, 8.2PF,50V,+/-0.25PF, 0402	A MC-0062 9	122	2	C54, C57	
001535-000	CLIP,SMIT SHIELD	A EC-0044 7	123	4	J4-J7	
001785-000	CAP,CER_NPO,SMD, 15PF,50V,5%,0402	A MC-0062 9	124	8	C51, C53, C55, C60, C61, C63, C64, C67	
000038-33R0	RES,SMD,33.0R,5%, 0603	B MC-0054 9	125	2	R48, R49	
000039-30K1	RES,SMD,30.1K,1%, 0603	A MC-0071 9	126	1	R38	
000081-4N70	CAP,CER_X7R,SMD, 4700PF,50V,10%,0603	A MC-0042 0	127	1	C44	
000182-000	HDR,TEST,8 PIN,2X4,0.1 IN,SMT	A MC-0029 3	128	1	J2	debug header at J2, populate on all boards for now
000720-000	CAP,CER_NPO,SMD, 1.5PF,250V,+/-0.1PF, 0603,LOW ESR	A MC-0071 6	129	1	C115	
000754-000	RES,SMD,36.0R,5%, 0603	A MC-0056 1	130	2	R60, R73	
001413-000	IND,SMD,1.2NH,5%, 0603	A EC-0065 9	131	1	L6	
002170-000	CAP,CER_NPO,SMD, 3.9PF,25V,+/-0.1PF, 0402,LOW ESR	A EC-0062 7	132	1	C59	
002242-000	RES,SMD,3.9R,5%, 1206	A MC-0057 1	133	1	R57	
002475	RES,SMD,51.1R,1%, 0603	A EC-0082 3	134	1	R65	
000262-100	SCHEMATIC,ERU RF,SP,PCS	02B EC-0087 0	1000	0		