

PART NUMBER: PL-100057
ASSEMBLY TITLE: PCS BAND AMPLIFIER
SUB-ASSEMBLY

REVISION -
NEXT ASSY: 100059

SHEET 2 OF 5

CAGE CODE: 07TU2

100059
TOP
ASS
'Y
NO:

PROJE 10058
CT
NO.

ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
1							
2		1	C201039 Rev -	ADCOMM		HOUSING, MACHINED AMPLIFIER	
3		1	B201040 Rev -	ADCOMM		COVER, SHEET METAL AMPLIFIER	
4		1	C201041 REV -	ADCOMM		HEATSINK, MACHINED AMPLIFIER	
5							
6	A1	1	B201166 Rev -	ADCOMM		PRINTED WIRING BOARD AMPLIFIER, MAIN BRD.	
7	A2	1	B201167 Rev -	ADCOMM		PRINTED WIRING BOARD AMP, INPUT SPLITTER BRD.	
8	A3	1	B201168 Rev -	ADCOMM		PRINTED WIRING BOARD AMP, OUTPUT SPLITTER BRD.	
9	A4	1	B201169 Rev -	ADCOMM		PRINTED WIRING BOARD AMP, INPUT LAUNCH BRD.	
10	A5	1	B201170 Rev -	ADCOMM		PRINTED WIRING BOARD AMP, OUTPUT LAUNCH BRD.	

11							
12	J1, J2	2	132147 (ALT) RSA3279	CONNEX		CONNECTOR.SMA FEMALE 2 HOLE FLANGE	CCI
13	GRND	1	1595-2	KEYSTONE		TERMINAL, TURRET #2-56 SINGLE TIER	
14	FL1	1	54-779-001-102P	MCI		FEEDTHRU, CAPACITIVE 1000pfd #4-40 THD	
15							

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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
16							
17	R1A, R1B, R4, R5	4	P100FCT-ND	DIGI-KEY		RESISTOR, CHIP 100 OHMS, 1206 Package	
18	R2A, R2B	2	3214W-202ECT	DIGI-KEY		RESISTOR, POTENTIOMETER 2K OHM, SURFACE MOUNT	
19	R3A, R3B	2	P150FCT-ND	DIGI-KEY		RESISTOR, CHIP 150 OHMS, 1206 Package	
20	R6	1	RFP10-50TVC	DIGI-KEY		RESISTOR, FLANGE #6 THRU	

						50 OHM TERMINATION	
21							
22							
23							
24	C1A, C1B, C1C, C1D	4	C17AH470J4UXL	DIELECTRIC LABS		CAPACITOR, CHIP 47 pfd	SIDE Mounting
25	C2A, C2B, C2C, C2D, C2E, C2 F C2G, C2H, C2J, C2K, C2L, C2 M	13	1210X7R104KL2AT	ATC		CAPACITOR, CHIP .1 ufd @ 50v	
26	C2N						
27	C3	1	PCS475CT-ND	DIGI-KEY		CAPACITOR, CHIP 4.7 ufd @ 10v	
28	C4A, C4B	2	PCS610CT-ND	DIGI-KEY		CAPACITOR, CHIP 10 ufd @ 35v	
29	C6A, C6B, C7A, C7B	4	C17AH1R5B4TXL	DIELECTRIC LABS		CAPACITOR, CHIP SAT (Starting Value 1.5 pfd)	
30	C5A, C5B, C8A, C8B	4	C17AH????????	DIELECTRIC LABS		CAPACITOR, CHIP SAT (Do Not Install)	

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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
31							
32	CIRC1	1	EL162	CHANNEL MICROWAVE		CIRCULATOR DROP-IN FLANGE MNT	
33							
34	L1, L2	2		ADCOMM		INDUCTOR, AIR COIL 6 TURNS, 24 AWG, .062 DIA.	
35							
36	U1	1	NJM78L05UA	DIGI-KEY		REGULATOR, TO-220 Case 5 volts ,	
37							
38	Q1, Q2	2	PTF10043	RICHARDSON		FET, POWER 12 Watt	CCI
39							
40	H1, H2	2	SO3A1870N1	RF POWER COMPONENTS		HYBRID, 90' 3 db, SURFACE MOUNT	
41							
42							
43							
44							

45							
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ASSEMBLY TITLE: PCS BAND AMPLIFIER
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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
46							
47			MS51957-25			SCREW, PH PN HD S/S #6-32 THD x 1/4" (.250) LG	
48			MS 35338-136			WASHER, SPLIT LOCK #6 S/S MEDIUM HELICAL	
49			MS 51957-3			SCREW, PH PN HD S/S #2-56 THD x 1/4" (.250) LG	
50			MS 35338-134			WASHER, SPLIT LOCK #2 S/S MEDIUM HELICAL	
51			NAS620-C2			WASHER, FLAT S/S #2 REDUCED PATTERN	
52							
53							

54							
55							
56							
57							
58							
59							
60							

PART NUMBER: PL-100058
ASSEMBLY TITLE: PCS LOW NOISE AMP

REVISION A
NEXT ASSY: 100059

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SUB-ASSEMBLY
100058

CAGE CODE: 07TU2

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PROJE 10058
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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
1							
2		1	201042 REV A	ADCOMM		HOUSING, MACHINED LNA	
3		1	201043 REV -	ADCOMM		COVER, SHEET METAL LNA	
4							
5		1	201054 REV -	ADCOMM		PRINTED CIRCUIT BOARD LNA	
6							
7							
8							
9	C1THRUC6	6	805X102KL2AT	ATC	805 SIZE	CAPACITOR, CHIP 1000 pfd	
10	C8, C9, C10	3	PCC103BNCT-ND	DIGI-KEY	805 SIZE	CAPACITOR, CHIP .01 ufd	

11	C7	1	PCS610CT-ND	DIGI-KEY		CAPACITOR,CHIP TANT. 10 ufd @ 35volts	
12	C11	1	12105C104KAT050	AVX	1210 SIZE	CAPACITOR, CHIP .1ufd @ 50volts	
13							
14							
15							

PART NUMBER: PL-100058
ASSEMBLY TITLE: PCS LOW NOISE AMP

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NEXT ASSY: 100059

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SUB-ASSEMBLY

CAGE CODE: 07TU2

100058

PROJE 10058

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ASS

NO.

'Y

NO:

ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
16							
17	L1, L4	2	PCD1185CT-ND	DIGI-KEY		INDUCTOR, CHIP 12 nH	
18	L2, L3	2	PCD1146CT-ND	DIGI-KEY		INDUCTOR, CHIP 3.9 nH	
19	L5, L6	2		ADCOMM		INDUCTOR, AIR COIL 4 TURNS, #32 AWG, .062 DIA.	
20							

21	R1	1	P18.0FCT-ND	DIGI-KEY		RESISTOR, CHIP SAT (Starting Value 18 Ohms)	
22	R3,R9	2	P10.0CCT-ND	DIGI-KEY		RESISTOR, CHIP 10 OHMS	
23	R5,R6	2	P51.1CCT-ND	DIGI-KEY		RESISTOR, CHIP 51.1 OHMS	
24	R7,R8	2	P301FCT-ND	DIGI-KEY		RESISTOR, CHIP 301 OHMS	
25	R2,R4	2	N/U			NOT USED	
26							
27	U1	1	NJM78M08FA-ND	DIGI-KEY		REGULATOR, TO-220F CASE 8 volt 500mA	
28	U2,U3	2	AM50-0004	MACOM		AMPLIFIER, 8 PIN DIP Flat Pack	CCI
29	U4,U5	2	SO3A1870N1			HYBRID, 90' 3db	CCI
30							

PART NUMBER: PL-100058
ASSEMBLY TITLE: PCS LOW NOISE AMP

SUB-ASSEMBLY
100058

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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
31							
32	J1, J2, J3	3	132147 (ALT) RSA3279	CONNEX		CONNECTOR.SMA FEMALE 2 HOLE FLANGE	CCI
33	GRND	1	1595-2	KEYSTONE		TERMINAL, TURRET #2-56 SINGLE TIER	
34	FL1	1	54-779-001-102P	MCI		FEEDTHRU, CAPACITIVE 1000pfd #4-40 THD	
35							
36			MS51957-25			SCREW, PH PN HD S/S #6-32 THD x 1/4" (.250) LG	
37			MS 35338-136			WASHER, SPLIT LOCK #6 S/S MEDIUM HELICAL	
38			MS 51957-3			SCREW, PH PN HD S/S #2-56 THD x 1/4" (.250) LG	
39			MS 35338-134			WASHER, SPLIT LOCK #2 S/S MEDIUM HELICAL	
40			NAS620-C2			WASHER, FLAT S/S #2 REDUCED PATTERN	
41							
42							
43							
44							

PART NUMBER: PL-100059
ASSEMBLY TITLE: 10 W. CELL EXTENDER

REVISION -
NEXT ASSY: CELL
SITE

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PCS BAND TOP ASSY

CAGE CODE: 07TU2

100059

PROJE 10058

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ASS
'Y
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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
1							
2		1	201055 REV -	ADCOMM		ENCLOSURE, MACHINED, From Hoffman P/N C-CA332318	CCI
3		1	201056 REV -	ADCOMM		BASE PLATE, MACHINED From Hoffman P/N C-CAP3323	CCI
4							
5	A1, A2	2	100057 REV -	ADCOMM		PWR AMPLIFIER, SUB-ASSY	
6		2	201249	ADCOMM		GASKET, PWR AMP .030 THK NEOPRENE	
7	A3, A4	2	100058 REV -	ADCOMM		LNA, Low Noise Amplifier SUB ASSY	
8		5ft	UTC-141			CABLE, SEMIRIGID .141 DIA.	
9	J1, J2	2	A201171 Modified Connector	CONNEX		CONNECTOR, RF, FEMALE DIN-TYPE to Semi-Rigid, Flange	CCI

10		12	132100	CONNEX		CONNECTOR, SMA MALE	CCI
11		8	132112	CONNEX		CONNECTOR, 90' SMA MALE	CCI
12	J3, J4	2	172137	CONNEX		CONNECTOR, RF, FEMALE N-TYPE to Semi-Rigid, Flange	CCI
13	FL1, FL2, FL3, FL4	4	CD1918/15SK-B1 ("B"BAND) or CD1900/20SK-B1	MSI		FILTER, DIPLEXER PCS BAND	
14			("A\D"BAND) or COMBINATION OF BOTH				
15							

PART NUMBER: PL-100059
ASSEMBLY TITLE: 10 W. CELL EXTENDER

REVISION -
NEXT ASSY: CELL
SITE

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PCS BAND TOP ASSY

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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
16							
17	PS1	1	201058 REV -	ADCOMM		POWER SUPPLY, MODIFIED From P/N LDA300W (COSEL)	CCI
18		1	A201172-1	ADCOMM		POWER SUPPLY GUARD BIG GUARD	

19		1	A201172-2	ADCOMM		POWER SUPPLY GUARD SMALL GUARD	
20							
21							
22							
23							
24							
25							
26							
27		1	CAT#30201	MULBERRY		COVER, WEATHER SEALED WITH GASKET, 1GANG	NASSOR
28		1	CAT#30278	MULBERRY		BOX, JUNCTION, ELECTRICAL OUTDOOR, 3 Outlets - 1/2" IPS	NASSOR
29		1		NASSOR		NIPPLE, 1/2" NPT, MALE CONTINUOUS THREAD	
30		1		NASSOR		NUT, ELECTRICAL, 1/2" NPT GRIPPING TYPE	

PART NUMBER: PL-100059
ASSEMBLY TITLE: 10 W. CELL EXTENDER

PCS BAND TOP ASSY
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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
31							
32		20	MS16695-			SCREW, SOCKET HD CAP #8-32 THD x 1/2" LG S/S	
33		3	MS51959-			SCREW, PH FLT HD 82' #6-32 THD x 3/8" LG S/S	
34		4	MS51957-			SCREW, PH PN HD #6-32 THD x " LG S/S	
35		6	MS51957-			SCREW, PH PN HD #6-32 THD x 3/8" LG S/S	
36		4	MS51957-			SCREW, PH PN HD #6-32 THD x 1/2" LG S/S	
37		24	MS51957-			SCREW, PH PN HD #4-40 THD x 1/4" LG S/S	
38							
39		20	MS35338-			WASHER, SPLIT LOCK S/S #8 STD PATTERN	
40		20	MS35338-			WASHER, SPLIT LOCK S/S #6 STD PATTERN	
41		24	MS35338-			WASHER, SPLIT LOCK S/S #4 STD PATTERN	
42							
43		20	MS15795-806			WASHER, FLAT S/S #6 STD PATTERN	

44		24	MS15795-804			WASHER, FLAT S/S #4 STD PATTERN	
45							

PART NUMBER: PL-100059
ASSEMBLY TITLE: 10 W. CELL EXTENDER

REVISION -
NEXT ASSY: CELL
SITE

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PCS BAND TOP ASSY

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ITEM	REF DESIG.	QTY	PART/DOCUMENT #	MFR.	SPEC.	DESCRIPTION	NOTES
46							
47		4	4337	KEYSTONE		BRACKET, "L" TYPE 1 HOLE 1 SLOT	
48		2	1564	KEYSTONE		BRACKET, "L" TYPE THREE # 8 HOLES	
49							
50		4	1122-6-SS-0	RAF		SPACER, #6 CLEARANCE 1/4" RND ,1/8 LG SS	
51							
52							
53							

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56							
57							
58							
59							
60							