

PARTS LIST		DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2020-1	REV -	PAGE 1 OF 6
TITLE PRINTED WIRING ASSEMBLY, LOW PASS FILTER			CONTRACT NUMBER		DATE: 98-04-15	
REVISIONS						
LTR	DESCRIPTION			DATE	APPROVED	
-	INITIAL RELEASE.			98-04-21 98-4-21 98-4-23 98-5-18	MENORMAN C. Anderson Jim Stahl [Signature] [Signature]	
	JIM BRAY 98-04-15					

PARTS LIST	DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2020-1	REV -	PAGE 2 OF
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NOTES: UNLESS OTHER SPECIFIED

1. ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR PROTECTION
OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND EQUIPMENT
SHALL BE IN ACCORDANCE WITH MIL-STD-1686 AND DOD-HBK-263.
2. VENDOR ITEM: SEE SPEC CONTROL DWG.

PART NUMBER : 2241-2020-1X

TITLE: PWA,LOW PASS FILTER THRU HOLE

CAGE CODE: 59532

REV : /

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
001	0	D2241-2020	PWA,LOW PASS FILTER PA-5050A			
002	0	PL2241-2020	PWA,LOW PASS FILTER PA-5050A			
010	1	2241-2120-7	PWB,LOW PASS FILTER FAA APPROVED			
011	1	322-010	CONN,HEADER,.100 ST LK 9 PIN GLD	22-11-2092	M27264	J1
012	16	111-089	RELAY,	VB-24STCU-E	M30143	K1,K2,K3,K4,K5,K6,K7,K8,K9,K10,K11,K12,K13,K14,K15,K16
014	0	784-007	SOLDER,WIRE FLUX .020 DIA SN63	SN63WRMAP2	MQPL	
015	16	475-023	DIODE 1A,600V	1N4005	M04713	CR1,CR2,CR3,CR4,CR5,CR6,CR7,CR8,CR9,CR10,CR11,CR12,CR13,CR14,CR15,CR16
018	1	322-005	CONN,HEADER,.100 ST LK 4 PIN GLD	2101816C-04001	M06994	J2
021	3	012-601	COIL,TOROID 5T			L1,L23,L24
022	2	012-602	COIL,TOROID 6T			L6,L22
023	1	012-603	COIL,TOROID 7T			L5
024	1	012-604	COIL,TOROID 9T			L16
025	2	012-605	COIL,TOROID 10T			L11,L12
027	1	012-607	COIL,TOROID 12T			L10
030	2	012-610	COIL,AIR CORE,.75ID 5T			L14,L21
031	1	012-611	COIL,AIR CORE,.75ID 6T			L19
034	2	012-638	COIL,TOROID 4T			L2,L3
035	3	012-639	COIL,TOROID 3T			L7,L8,L9
036	3	012-640	COIL,TOROID 8T			L4,L17,L18
037	2	012-613	COIL,AIR CORE,.75ID 4.5T			L13,L20

**CUBIC.COMMUNICATIONS***A member of the Cubic Corporation family of companies***BILL OF MATERIAL**05/29/98
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PART NUMBER : 2241-2020-1X

TITLE: PWA,LOW PASS FILTER THRU HOLE

CAGE CODE: 59532

REV : /

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
038	1	012-612	COIL,AIR CORE,.75ID 3.5T			L15
040	8	045-510	RES,CARBON FILM,1/4W 5% 51 OHMS	4701701C-4510J	M06994	R1,R2,R3,R4,R5,R6,R7,R8
044	2	083-121	CAP,CER HF POWER 5% 120 PF	MHP-1-121	M05079	C18,C37
045	1	083-122	CAP,CER HF POWER 5% 1200 PF	UFP1122J	M32897	C40
046	4	083-131	CAP,CER HF POWER 5% 130 PF	MHP-1-131	M05079	C6,C21,C31,C33
047	1	083-161	CAP,CER HF POWER 5% 160 PF	MHP-1-161	M05079	C4
049	2	083-180	CAP,CER HF POWER 5% 18 PF	MHP-1-180	M05079	C30,C44
050	3	083-181	CAP,CER HF POWER 5% 180 PF	MHP-1-181	M05079	C15,C47,C55
052	3	083-201	CAP,CER HF POWER 5% 200 PF	MHP-1-201	M05079	C7,C23,C45
054	2	083-241	CAP,CER HF POWER 5% 240 PF	MHP1241J	M05079	C1,C53
055	2	083-270	CAP,CER HF POWER 5% 27 PF	MHP-1-270	M05079	C16,C35
056	3	083-271	CAP,CER HF POWER 5% 270 PF	MHP1271J	M05079	C13,C19,C56
057	1	083-301	CAP,CER HF POWER 5% 300 PF	MHP1301J	M05079	C17
057	1	083-301	CAP,CER HF POWER 5% 300 PF	MHP1301J	M05079	
058	1	083-330	CAP,CER HF POWER 5% 33 PF	MHP-1-330	M05079	C10B
059	2	083-331	CAP,CER HF POWER 5% 330 PF	UFP1-331	M32897	C3,C11
060	3	083-361	CAP,CER HF POWER 5% 360 PF	MHP1361J	M05079	C14,C38B,C50
061	2	083-390	CAP,CER HF POWER 5% 39 PF	MHP-1-390	M05079	C32,C34
062	2	083-391	CAP,CER HF POWER 5% 390 PF	MHP-1-391	M05079	C5,C41
063	2	083-470	CAP,CER HF POWER 5% 47 PF	MHP-1-470	M05079	C2,C49
064	1	083-471	CAP,CER HF POWER 5% 470 PF	MHP1471J	M05079	C39

**CUBIC.COMMUNICATIONS***A member of the Cubic Corporation family of companies***BILL OF MATERIAL**05/29/98
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PART NUMBER : 2241-2020-1X

TITLE: PWA,LOW PASS FILTER THRU HOLE

CAGE CODE: 59532

REV : /

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
065	2	083-511	CAP,CER HF POWER 5% 510 PF	MHP1511J	M05079	C8,C22B
066	3	083-560	CAP,CER HF POWER 5% 56 PF	MHP-1-560	M05079	C29,C48,C51
067	2	083-561	CAP,CER HF POWER 5% 560 PF	MHP1561J	M05079	C27,C54
068	2	083-621	CAP,CER HF POWER 5% 620 PF	UFP1-621	M32897	C42,C52
069	1	083-681	CAP,CER HF POWER 5% 680 PF	UFP1-681	M32897	C25
070	1	083-750	CAP,CER HF POWER 5% 75 PF	MHP-1-750	M05079	C46
071	1	083-751	CAP,CER HF POWER 5% 750 PF	UFP1-751	M32897	C36
072	6	083-821	CAP,CER HF POWER 5% 820 PF	MHP-1-821	M05079	C10A,C12,C22A,C26A,C26B,C28
073	3	083-910	CAP,CER HF POWER 5% 91 PF	MHP-1-910	M05079	C9,C20,C43
074	3	083-911	CAP,CER HF POWER 5% 910 PF	MHP1911J	M05079	C24A,C24B,C38A

PART NUMBER : 2241-2020-1

TITLE: PWA,LOW PASS FILTER FCC VERSION

CAGE CODE: 59532

REV : /

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
001	0	D2241-2020	PWA,LOW PASS FILTER PA-5050A			
001	1	2241-2020-1X	PWA,LOW PASS FILTER THRU HOLE			
002	0	PL2241-2020	PWA,LOW PASS FILTER PA-5050A			
003	0	D2241-2420	SCHEMATIC,LOW PASS FILTER			
004	0	SPEC LIST 1	SPEC,MARKING			
005	0	SPEC LIST 17	SPEC,ESD			
006	0	MIL-STD-2000	STD REQS FOR SOLDERED ELECTRICAL			

PARTS LIST	 DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	PL-2241-2008-1	PAGE 1 OF 2
TITLE	DISPLAY ASSY, L.C.D.	CONTRACT NUMBER		REV DATE C
	REVISIONS			
LTR	DESCRIPTION	DATE	APPD	
A	DCR 723016: REVISED AND REDRAWN. M. THORP 96-5-14	96-6-5 96-6-24 96-6-5 96-6-5	C. Dandrea A. B. G. G. EC J. M. J. J.	
B	DCR 723507: DELETED FN11, WAS 680-106. FN12 WAS 325-046. ADDED FN15, 16, 17. M. THORP 97-1-21	97-1-23 97-1-23 97-1-23 97-1-24 97-1-23	C. Dandrea W. J. J. K. J. J. J. J. J.	
C	DCR 726000: DRAWING ONLY AFFECTED. M. THORP 97-5-22	97-6-12 7-10-97 97-6-12 97-5-29	C. Dandrea L. J. J. EC N. J. J.	

**CUBIC.COMMUNICATIONS***A member of the Cubic Corporation family of companies***BILL OF MATERIAL**07/18/97
PAGE - 1 2

PART NUMBER : 2241-2008-1

TITLE: PWA,DISPLAY ASSY,LCD

CAGE CODE: 59532

REV : C

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
001	0	D2241-2008	ASSY,DISPLAY LCD			
002	0	PL2241-2008	ASSY,DISPLAY LCD			
003	0	SPEC LIST 8	SPEC,STD GENL REQMT EL EQUIPMENT			
004	0	SPEC LIST 11	SPEC,DRAWING PRACTICES			
005	0	MIL-STD-2000	STD REQS FOR SOLDERED ELECTRICAL			
010	1	470-004	DISPLAY,LCD 16 CHARACTERS 1 LINE	L1671B1J000	M62712	
012	1	322-015	CONN,HEADER,,100,ST LK14 PIN GLD	22-11-2142	M27264	
015	2	673-609	WIRE,#24/19, TYPE BU WHITE	NB1936U9	M04569	
016	2	675-547	TUBING,TFE TEFLON SIZE 15	6032-15-10	M04569	
017	1	045-628	RES,CARBON FILM,1/4W 5% 6.2 OHMS			
020	0	784-007	SOLDER,WIRE FLUX .020 DIA SN63	SN63WRMAP2	MQPL	

13:03:14
FUNCTION: BILI

CUBIC COMMUNICATIONS, INC.
SINGLE LEVEL BILL

PAGE: 1
01/14/1999

OPTION: A IN EFF: 011499 OUT EFF: 123179

PARENT: 2245-2001-1 DESC: PWA,CONTROL THRU HOLE
RV: C UM: EA RUN LT: 9.9999 FIXED LT: 0
PLNR: ADM LT: Y PLN POL: N DRWG: D2245-2001

PT USE SEQN COMPONENT
STARTING:

PT	USE	SEQN	COMPONENT	DESCRIPTION	C T	QUANTITY	Q T	UM	M B	L T
KITPL	002	2245-2001-1X	PWA,CONTROL	SMT O N	1	I	EA	M	Y	
KITPL	047	052-226	RES,VAR 1/4"SQ TOP ADJ 100K OHMS	N	2	I	EA	B	N	
KITPL	048	052-293	RES,VAR 1/4 SQ PCMT TOP ADJ 50K	N	2	I	EA	B	N	
KITPL	086	073-151	CAP,ELECTROLYTIC,63V 100 UF	N	1	I	EA	B	N	
KITPL	128	322-005	CONN,HEADER,.100 ST LK 4 PIN GLD	N	1	I	EA	B	N	
KITPL	130	322-007	CONN,HEADER,.100 ST LK 6 PIN GLD	N	1	I	EA	B	N	
KITPL	132	322-008	CONN,HEADER,.100 ST LK 7 PIN GLD	N	1	I	EA	B	N	
KITPL	138	322-069	CONN,HEADER MINIFIT JR 6 PIN	N	1	I	EA	B	N	
KITPL	140	322-218	CONN,HEADER BRKAWAY DUAL ROW ST	N	2	I	EA	B	N	
KITPL	144	322-188	CONN,HEADER BRKAWAY DUAL ROW ST	N	1	I	EA	B	N	
KITPL	150	324-073	CONN,D-SUB PIN RA PCMT FLTR 9 PI	N	6	I	EA	B	N	
KITPL	160	344-364	CONN, HEADER,.200, ST NL , 3 PIN	N	1	I	EA	B	N	
KITPL	164	344-413	CONN,JACK SMB PC MT SMB	N	2	I	EA	B	N	
KITPL	166	458-107	STANDOFF,4-40 THD 1/4 L	N	6	I	EA	B	N	
KITPL	188	505-034	IC,CONV DC/DC,20 WATTS 28 IN 12	N	1	I	EA	B	N	
REV A	001	DCR727847	CHANGE 2245-2001 TO REV A	X	0	I	EA	M	N	
REV A	001	DCR727774	CHANGE 2245-2001 TO REV A	X	0	I	EA	M	N	
REV B	002	DCR727850	CHANGE 2245-2001 TO REV B	X	0	I	EA	M	N	
REV C	003	DCR727851	CHG 2245-2001/C 1000-1/A 1102-1/	X	0	I	EA	M	N	

*** END OF REPORT ***

PARTS LIST	 DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	PL2241-2004-1	PAGE 1 OF 2
TITLE PWA, COMBINER		CONTRACT NUMBER		REV - DATE
	REVISIONS			
LTR	DESCRIPTION	DATE	APPD	
B	DCR 723016: M. THORP 96-3-22	96-4-17 96-4-17 96-4-8	L. Lumbert PC Jim Martin	

11:35:35
FUNCTION: BILI

CUBIC COMMUNICATIONS, INC.
SINGLE LEVEL BILL
OPTION: M

PAGE: 1
04/17/1996

PARENT: 2241-2004-1 DESC: PWA,COMBINER
RV: B UM: EA RUN LT: 7 FIXED LT: 0
PLNR: USA LT: Y PLN POL: N DRWG: D2241-2004

PT USE SEQN COMPONENT
STARTING:

PT USE	SEQN	COMPONENT	DESCRIPTION	C T	QUANTITY	Q T	UM	M B	L T
KITPL	001	2241-2104-7	PWB,COMBINER	P	1	I	EA	B	Y
KITPL	002	072-108	CAP, DISC, 1 KV, .250LS , 68	N	2	I	EA	B	N
KITPL	003	072-105	CAP, DISC, 1 KV, .250LS ,180	N	1	I	EA	B	N
KITPL	004	322-018	CONN,HEADER,.100 RA LK 2 PIN	N	1	I	EA	B	N
KITPL	005	458-091	STANDOFF,SWG #6 CLEAR 3/32L	N	4	I	EA	B	N
KITPL	009	784-007	SOLDER,WIRE FLUX .020 DIA SN63	N	0	I	EA	B	N

*** END OF REPORT ***

PARTS LIST	 DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	PL 2241-2005-1	PAGE 1 OF 2
TITLE PWA, SPLITTER		CONTRACT NUMBER		REV - DATE
REVISIONS				
LTR	DESCRIPTION	DATE	APPD	
B	DCR 723016 : M. THORP 96-3-22	96-4-17 96-4-10 96-4-8	[Signature] [Signature] Jm. Man	

11:35:00
FUNCTION: BILI

CUBIC COMMUNICATIONS, INC.
SINGLE LEVEL BILL
OPTION: M

PAGE: 2
04/17/1996

PARENT: 2241-2005-1 DESC: PWA,SPLITTER
RV: B UM: EA RUN LT: 7 FIXED LT: 0
PLNR: USA LT: Y PLN POL: N DRWG: D2241-2005

PT USE SEQN COMPONENT
STARTING:

PT					C		Q	M	L
USE	SEQN	COMPONENT	DESCRIPTION		T	QUANTITY	T	UM	B T
KITPL	001	2241-2105-7	PWB,SPLITTER		P		1	I	EA B Y
KITPL	002	072-108	CAP, DISC, 1 KV, .250LS , 68		N		2	I	EA B N
KITPL	003	072-105	CAP, DISC, 1 KV, .250LS ,180		N		1	I	EA B N
KITPL	004	070-035	CAP,CER .33 UF		N		2	I	EA B N
KITPL	005	111-064	RELAY, PCMT,POWERCUBE,5 A,SPDT 4		N		1	I	EA B N
KITPL	006	322-019	CONN,HEADER,.100,RA LK 3 PIN GLD		N		1	I	EA B N
KITPL	007	458-091	STANDOFF,SWG #6 CLEAR 3/32L		N		4	I	EA B N
KITPL	009	784-007	SOLDER,WIRE FLUX .020 DIA SN63		N		0	I	EA B N

*** END OF REPORT ***

PARTS LIST		DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2007-1	REV H	PAGE 1 OF
TITLE PRINTED WIRING ASSEMBLY, FILTER DRIVER			CONTRACT NUMBER		DATE: 96-06-03	
REVISIONS						
LTR	DESCRIPTION			DATE	APPROVED	
-	INITIAL RELEASE SHELLEY MUNDT 96-06-03			96-05-31 96-05-31 96-06-03	C.DAVIDSON T.COCHRAN L.GUICHARD	
A	DCR 723763B: REPLACES REV - WITH CHANGE. SHELLEY MUNDT 97-01-29			97-02-11 97-02-25 97-02-21 97-02-04	M.NORMAN C.DAVIDSON T.COCHRAN W.FRAME	
B	DCR 726714: FN5, R41 WAS R47; FN9 Q16 WAS Q18. ADDED FN35.			97-05-28	C.DAVIDSON	
C	DCR 726724: DWG CHG ONLY. SHELLEY MUNDT 97-05-28			97-06-03 97-05-29 97-05-28	L.GUICHARD T.COCHRAN N.NADER	
D	DCR 727276: DWG AFFECTED ONLY. SHELLEY MUNDT 97-09-23			97-10-02 97-10-08 97-10-01 97-09-29 97-11-20	C.DAVIDSON T.COCHRAN N.NADER M.THORP L.GUICHARD	
E	DCR 727358, DCR 727489: ADDED C29,C30,C32; U10 477-247 WAS 506-118. SHELLEY MUNDT 98-04-06			98-04-13 98-04-17 98-04-09 98-04-15	C.DAVIDSON L.GUICHARD KIM DO T.COCHRAN	
F	DCR 727702: DWG CHG ONLY.			98-12-17	C.DAVIDSON	
G	DCR 727568: REPLACES REV F WITH CHANGE.			98-12-17	SHELLEY MUNDT 98-12-01	
H	DCR 727822: REPLACES REV G WITH CHANGE. SHELLEY MUNDT 98-12-01			98-12-15	SHELLEY MUNDT 98-12-01	

PARTS LIST	DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2007-1	REV H	PAGE 2 OF
NOTES: UNLESS OTHER SPECIFIED 1. ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR PROTECTION OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND EQUIPMENT SHALL BE IN ACCORDANCE WITH MIL-STD-1686 AND DOD-HBK-263. 2. VENDOR ITEM: SEE SPEC CONTROL DWG.					

14:32:39
FUNCTION: ASBL

CUBIC COMMUNICATIONS, INC.
SINGLE LEVEL BILL OF MATERIAL

PAGE: 1
12/03/1998

PRINT OPTION: TEXT ADDED TO PRINT
EXCLUSIONS: CT: RBCTU, WC[x], REVS

PARENT: 2241-2007-1

DESC: PWA,FILTER DRIVER

DRWG: D2241-2007

UM: EA

MB: M

REV: H

OPTION: P

EFFECTIVITY DATE: 120398

EFFECTIVE REV: H

PT	USE	SEQN	COMPONENT	DESCRIPTION	M C Q REV	B T T IN OUT	QUANTITY	UM	EFFECTIVITY	IN	OUT	LTOS	PCNT	SCRAP
	DWGFL	001	D2241-2007	PWA,FILTER DRIVER BOARD	M X I		0	EA	010190	123199		0	0.0	
	DWGFL	002	PL2241-2007	PWA,FILTER DRIVER BOARD	M X I		0	EA	010190	123199		0	0.0	
	DWGFL	003	D2241-2407	SCHEMATIC,FILTER DRIVER	M X I		0	EA	010190	123199		0	0.0	
	DWGFL	004	SPEC LIST 1	SPEC,MARKING	M X I		0	EA	010190	123199		0	0.0	
	DWGFL	005	SPEC LIST 17	SPEC,ESD	M X I		0	EA	010190	123199		0	0.0	
	DWGFL	006	MIL-STD-2000	STD REQD FOR SOLDERED ELECTRICAL	M X I		0	EA	010190	123199		0	0.0	
	KITPL	001	2241-2007-1X	PWA,FILTER DRIVER MEX	M N I		1	EA	010190	123199		0	0.0	
	KITPL	032	672-004	WIRE,20 AWG,TINNED BUSS BARE	B N I		0	IN	010190			0	0.0	

* * * * * END OF REPORT * * * * *

14:32:45
FUNCTION: ASBL

CUBIC COMMUNICATIONS, INC.
SINGLE LEVEL BILL OF MATERIAL

PAGE: 1
12/03/1998

PRINT OPTION: TEXT ADDED TO PRINT
EXCLUSIONS: CT: RBCTU, WC[x], REVS

PARENT: 2241-2007-1X

DESC: PWA,FILTER DRIVER MEX

DRWG: D2241-2007

UM: EA

MB: M

REV: H

OPTION: P

EFFECTIVITY DATE: 120398

EFFECTIVE REV: H

PT	USE SEQN COMPONENT	DESCRIPTION	M C Q REV	B T T IN OUT	QUANTITY UM	EFFECTIVITY	SCRAP
						IN OUT	LTOS PCNT
DWGPL 001	D2241-2007	PWA,FILTER DRIVER BOARD	M X I		0 EA	010190 123199	0 0.0
DWGPL 002	PL2241-2007	PWA,FILTER DRIVER BOARD	M X I		0 EA	010190 123199	0 0.0
DWGPL 003	D2241-2407	SCHEMATIC,FILTER DRIVER	M X I		0 EA	010190 123199	0 0.0
DWGPL 004	SPEC LIST 1	SPEC,MARKING	M X I		0 EA	010190 123199	0 0.0
DWGPL 005	SPEC LIST 17	SPEC,ESD	M X I		0 EA	010190 123199	0 0.0
DWGPL 006	MIL-STD-2000	STD REQT FOR SOLDERED ELECTRICAL	M X I		0 EA	010190 123199	0 0.0
KITPL 003	2241-2107-7	PWB,FILTER DRIVER	B N I		1 EA	010190 123199	0 0.0
KITPL 006	027-078	IND,Z BEAD CHOKE, 6.0 T	M N I		2 EA	010190 123199	0 0.0
		L1,L2					
KITPL 008	045-158	RES,CARBON FILM,1/4W 5% 1.5 OHMS	B N I		2 EA	010190	0 0.0
		R64,R65					
KITPL 010	045-102	RES,CARBON FILM,1/4W 5% 1.0K OHMS	B N I		21 EA	010190 123199	0 0.0
		R7,R8,R9,R10,R17,R18,R19,R20,R27,R28,R29,R30,R37,R38,R39, R40,R47,R48,R49,R50,R63					
KITPL 012	045-103	RES,CARBON FILM,1/4W 5% 10K OHMS	B N I		43 EA	010190 123199	0 0.0
		R1,R2,R3,R4,R5,R6,R11,R12,R13,R14,R15,R16,R21,R22,R23,R24, R25,R26,R31,R32,R33,R34,R35,R36,R41,R42,R43,R44,R45,R46,R53, R54,R55,R66,R67,R68,R69,R70,R71,R72,R73,R74,R75					
KITPL 014	045-241	RES,CARBON FILM,1/4W 5% 240 OHMS	B N I		2 EA	010190 123199	0 0.0
		R51,R52					
KITPL 020	046-510	RES,CARBON FILM,1/2W 5% 51 OHMS	B N I		2 EA	010190 123199	0 0.0
		R56,R60					
KITPL 026	052-231	RES,VAR 1/4 SQ TOP ADJ 12T,10K OHMS	B N I		2 EA	010190 123199	0 0.0
		R58,R62					
KITPL 030	069-012	CAP,TANTALUM 10V 20% 220 UF	B N I		1 EA	010190 123199	0 0.0
		C26					
KITPL 034	069-225	CAP,TANTALUM 25V 10% 47 UF	B N I		2 EA	010190 123199	0 0.0
		C24,C25					
KITPL 040	073-151	CAP,ELECTROLYTIC,63V 100 UF	B N I		1 EA	010190 123199	0 0.0
		C23					

EFFECTIVE REV: H

PT				M C Q REV		EFFECTIVITY	SCRAP
USE SEQN COMPONENT	DESCRIPTION	B T T IN OUT	QUANTITY UM	IN	OUT	LTOS	PCNT
KITPL 044 081-103	CAP,SEMI-STABLE CERAMIC .01 UF C2,C4,C6,C8,C10,C12,C14,C16,C17,C18,C19,C20,C21,C27,C28	B N I	15 EA	010190	123199	0	0.0
KITPL 046 081-104	CAP,SEMI-STABLE CERAMIC .1 UF C1,C3,C5,C7,C9,C11,C13,C15,C22,C29,C30	B N I	11 EA	010190	123199	0	0.0
KITPL 050 081-472	CAP,SEMI-STABLE CERAMIC .0047 UF C31	B N I	1 EA	010190		0	0.0
KITPL 060 322-003	CONN,HEADER,.100 ST LK 2 PIN GLD J5,J11	B N I	2 EA	010190	123199	0	0.0
KITPL 062 322-004	CONN,HEADER,.100 ST LK 3 PIN GLD J1,J6,J7	B N I	3 EA	010190	123199	0	0.0
KITPL 064 322-006	CONN,HEADER,.100 ST LK 5 PIN GLD J2,J4,J17	B N I	3 EA	010190	123199	0	0.0
KITPL 066 322-010	CONN,HEADER,.100 ST LK 9 PIN GLD J3,J12,J13	B N I	3 EA	010190	123199	0	0.0
KITPL 070 322-069	CONN,HEADER MINIFIT JR 6 PIN J8	B N I	1 EA	010190	123199	0	0.0
KITPL 074 322-189	CONN,HEADER,STRAIGHT 34 PIN J14,J15	B N I	2 EA	010190	123199	0	0.0
KITPL 080 325-042	CONN,IDC,HEADER ST PCMT 14 PIN J16	B N I	1 EA	010190	123199	0	0.0
KITPL 090 344-413	CONN,JACK SMB PC MT SMB J9,J10	B N I	2 EA	010190	123199	0	0.0
KITPL 100 475-151	DIODE .41V@ 1MA CR1,CR2,CR3,CR4,CR5,CR6	B N I	6 EA	010190	123199	0	0.0
KITPL 104 476-157	TRANSISTOR SILICONIX ONLY,N CHANNEL Q1,Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q13,Q15	B N I	10 EA	010190		0	0.0
KITPL 106 476-253	TRANSISTOR Q9,Q10,Q11,Q12,Q14,Q16,Q17,Q18,Q19,Q20	B N I	18 EA	010190	123199	0	0.0

14:32:45
FUNCTION: ASBL

CUBIC COMMUNICATIONS, INC.
SINGLE LEVEL BILL OF MATERIAL

PAGE: 3
12/03/1998

PARENT: 2241-2007-1X

DESC: PWA, FILTER DRIVER MEX

DRWG: D2241-2007

UM: EA

MB: M

REV: H

OPTION: P

EFFECTIVITY DATE: 120398

EFFECTIVE REV: H

PT	USE	SEQN	COMPONENT	DESCRIPTION		M	C	Q	REV		EFFECTIVITY		SCRAP			
						B	T	T	IN	OUT	QUANTITY	UM	IN	OUT	LTOS	PCNT
	KITPL	108	477-096	IC, COMPARATOR, QUAD	, LINEAR	B	N	I			10	EA	010190	123199	0	0.0
				U1, U2, U3, U4, U5												
	KITPL	109	477-264	IC, OP AMP DUAL	LINEAR	B	N	I			1	EA	010190	123199	0	0.0
				U7												
	KITPL	110	477-356	IC, MUX, 8 CHAN ANALOG	, CMOS	B	N	I			1	EA	010190	123199	0	0.0
				U6												
	KITPL	112	477-247	IC, INVERTER, HEX	CMOS	B	N	I			1	EA	010190		0	0.0
				U10												
	KITPL	116	505-034	IC, CONV DC/DC, 20 WATTS	28 IN 12 OUT	B	N	I			1	EA	010190	123199	0	0.0
				FS1												
	KITPL	118	506-118	IC, QUAD 2 INPUT MUX, TRI-STATE	OUT	B	N	I			3	EA	010190	123199	0	0.0
				U8, U9, U11												
	KITPL	119	675-517	SLEEVING, TEFLON	#24	B	N	I			0	IN	010190		0	0.0
	KITPL	120	779-031	ADHESIVE, SEALANT, CLR RTV	3OZ TUBE	B	N	I			0	EA	010190		0	0.0

* * * * * END OF REPORT * * * * *

PARTS LIST		DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2015-1	REV F	PAGE 1 OF 3
TITLE PRINTED WIRING ASSEMBLY, POWER AMPLIFIER			CONTRACT NUMBER			DATE: 97-02-27
REVISIONS						
LTR	DESCRIPTION			DATE	APPROVED	
E	DCR724003 REPLACES REV D WITH CHANGE. CHANGED ITEM 38 FROM 045-243 TO 045-472. JIM BRAY 97-09-09			9-12-97 9-26-97	C. Bray J. Bray	
F	DCR727185 REPLACES REV E WITH CHANGE. CHANGED ITEM 35 FROM 045-103 TO 045-202, ITEM 36 FROM 045-301 TO 045-470. ADD R41 (045-241). JIM BRAY 97-09-09			1/10/98 2/10/98	C. Bray J. Bray	

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PART NUMBER : 2241-2015-1

TITLE: PWA,POWER AMP PA5050A

CAGE CODE: 59532

REV : F

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
001	0	D2241-2015	PWA,POWER AMPLIFIER			
002	0	PL2241-2015	PWA,POWER AMPLIFIER			
003	1	2241-2115-7	PWB,POWER AMP PA5050A			
010	2	014-228	XFMR,DRIVER OUTPUT	RF2000-4-C	M30049	T1,T3
012	2	014-226	XFMR,WIDE BAND RF,1T:2T	CCI DRAWING	M59532	T2,T4
014	1	014-229	XFMR,PWR COMBINER	RF2043-B	M30049	T5
016	1	014-230	XFMR,PWR SPLITTER	RF400-B	M30049	T6
020	2	027-235	IND,RF CHOKE	AR-305	M30049	L1,L2
026	2	040-229	RES,MF 1/8 W 1% 10.0K OHMS	RNC55H1002FM	M91637	R2,R14
027	2	040-370	THERMISTOR 10K OHM	AL03006-5818-97-G1	M91833	RT1,RT2
028	1	045-103	RES,CARBON FILM,1/4W 5% 10K OHMS	4701701C-4103J	M06994	R37
029	1	045-202	RES,CARBON FILM,1/4W 5% 2.0K OHMS	4701701C-4202J	M06994	R35
031	1	045-105	RES,CARBON FILM,1/4W 5% 1.0M OHMS	4701701C-4105J	M06994	R34
032	1	045-271	RES,CARBON FILM,1/4W 5% 270 OHMS	4701701C-4271J	M06994	R8
034	1	044-103	RES,CARBON FILM,1/8W 5% 10K OHMS	4701701C-8103J	M06994	R30
036	3	045-241	RES,CARBON FILM,1/4W 5% 240 OHMS	4701701C-4241J	M06994	R12,R20,R41
037	1	045-470	RES,CARBON FILM,1/4W 5% 47 OHMS	4701701C-4470J	M06994	R36
038	1	045-472	RES,CARBON FILM,1/4W 5% 4.7K OHMS	4701701C-4472J	M06994	R38
039	1	045-333	RES,CARBON FILM,1/4W 5% 33K OHMS	4701701C-4333J	M06994	R33
040	8	046-470	RES,FIXED CARBON 1/2W 5% 47 OHMS	4701701C-2470J	M06994	R21,R22,R23,R24,R25,R26,R27,R28
041	2	046-332	RES,CARBON FILM,1/2W 5% 3.3K OHMS	29SJ500-3.3K	M50811	R32,R39

**CUBIC COMMUNICATIONS***A member of the Cubic Corporation family of companies***BILL OF MATERIAL**10/10/97
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PART NUMBER : 2241-2015-1

TITLE: PWA,POWER AMP PA5050A

CAGE CODE: 59532

REV : F

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
043	2	048-123	RES,CARBON FILM 2W,5% 12K OHMS	CF2W12KJ	MOPEN	R31,R40
044	2	052-230	RES,VAR 1/4 SQ TOP ADJ 12T 2K OHMS	3262W-1-202	M32997	VR1,VR2
050	2	060-102	RES,FILM 1/8W 2% RLR05 1K OHMS	RLR05C1001GS	M91637	R3,R15
058	4	060-301	RES,FILM 1/8W 2% RLR05 300 OHMS	RLR05C3000GS	M91637	R5,R6,R16,R17
060	1	069-044	CAP,TANTALUM CHIP 35V 1.0 UF	293D105X9035B2T	M52769	C35
070	1	073-151	CAP,ELECTROLYTIC,63V	ECE-A1JGE101	M61058	C3
072	1	073-165	CAP,ELECTROLYTIC,63V,AX 470 UF	TA470M63	M90201	C6
074	1	073-166	CAP,ELECTROLYTIC,50V,RAD 220 UF	ECE-A1HGE221	M61058	C1
076	2	073-168	CAP,ELECTROLYTIC,16V,AX 1000 UF	TA1000M16	M90201	C7,C14
078	2	073-169	CAP,ELECTROLYTIC,50V,DC RAD 10 UF	515D106M050JA6A	M52769	C21,C22
080	1	090-024	CAP,POLY 5% 50V 0.1 UF	168104J63A	M90201	C4
082	2	090-025	CAP,POLY 10% 100V 1 UF	160105K100H	M90201	C2,C13
090	13	094-104	CAP,CER CHIP 10% 0.1 UF	ATC200B104KP50	M29990	C9,C10,C11,C12,C15,C16,C17,C18,C19,C20,C31,C32,C33
100	3	475-023	DIODE 1A,600V	1N4005	M04713	CR2,CR3,CR5
104	1	475-126	DIODE,SILICON REFERENCE 4.7 V	1N5230B	M04713	CR32
106	2	475-151	DIODE .41V@ 1MA	1N6263	M12060	CR31,CR33
112	1	477-503	IC,VOLT COMP,LINEAR	LM293D	M01295	U6
120	2	504-046	IC,LINE DRIVER HI-SPD&I,3ST DIP-8	EL7134CN	M4Y658	U3,U5
122	0	779-003	ADHESIVE,TAK-PAK KIT #382	00239	M05972	

PARTS LIST	DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2016-1	REV C	PAGE 1 OF 4
TITLE PRINTED WIRING ASSEMBLY, POWER AMP DRIVER		CONTRACT NUMBER			DATE: 97-05-07
REVISIONS					
LTR	DESCRIPTION	DATE		APPROVED	
C	DCR 727287 REPLACES REV B WITH CHANGE. P/L NOT AFFECTED.	97.9-12 9-22-97 97. 2. 97-9-10 JIM BRAY 97-08-04		<i>C. D. Anderson</i> <i>L. D. Anderson</i> <i>W. Nader</i>	

PARTS LIST	DESIGN ACTIVITY CUBIC COMMUNICATIONS, INC.	CAGE CODE 59532	DRAWING NUMBER 2241-2016-1	REV C	PAGE 2 OF
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NOTES: UNLESS OTHER SPECIFIED

1. ELECTROSTATIC DISCHARGE CONTROL PROGRAM FOR PROTECTION
OF ELECTRICAL AND ELECTRONIC PARTS, ASSEMBLIES AND EQUIPMENT
SHALL BE IN ACCORDANCE WITH MIL-STD-1686 AND DOD-HBK-263.
2. VENDOR ITEM: SEE SPEC CONTROL DWG.

PART NUMBER : 2241-2016-1

TITLE: PWA,POWER AMP DRIVER

CAGE CODE: 59532

REV: C

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
001	0	D2241-2016	PWA,POWER AMP DRIVER			
002	0	PL2241-2016	PWA,POWER AMP DRIVER			
002	1	2241-2116-7	PWB,POWER AMP DRIVER	DELTA SIGMA 7-31-012	M59532	
009	1	014-228	XFMR,DRIVER OUTPUT	RF2000-4-C	M30049	T1
010	1	014-227	XFMR,WIDE BAND RF 3T:1T	RF400-9	M30049	T2
012	1	027-235	IND,RF CHOKE	AR-305	M30049	L1
013	1	027-236	IND,RF SNUBBER	CCI DRAWING	M59532	L2
014	1	045-471	RES,CARBON FILM,1/4W 5% 470 OHMS	29SJ250-470	M50811	R8
015	1	040-098	RES,MF 1/8 W 0.1% 10.0K OHMS	RN55C1002B	108753	R2
016	1	060-103	RES,FILM 1/8W 2% RLR05 10K OHMS	RLR05C1002GS	M91637	R7
017	1	045-221	RES,CARBON FILM,1/4W 5% 220 OHMS	29SJ250-220	M50811	R9
018	1	045-241	RES,CARBON FILM,1/4W 5% 240 OHMS	4701701C-4241J	M06994	R14
019	1	045-271	RES,CARBON FILM,1/4W 5% 270 OHMS	4701701C-4271J	M06994	R10
020	1	040-370	THERMISTOR 10K OHM	AL03006-5818-97-G1	M91833	RT1
021	4	046-470	RES,FIXED CARBON 1/2W 5% 47 OHMS	4701701C-2470J	M06994	R15,R16,R17,R18
022	1	052-233	RES,VAR 25-TURN 2K OHMS	3292W-1-202	M32997	VR1
024	2	060-102	RES,FILM 1/8W 2% RLR05 1K OHMS	RLR05C1001GS	M91637	R1,R3
025	1	060-222	RES,FILM 1/8W 2% RLR05 2.2K OHMS	RLR05C2201GS	M91637	R4
026	2	060-301	RES,FILM 1/8W 2% RLR05 300 OHMS	RLR05C3000GS	M91637	R5,R6
027	1	060-153	RES,FILM 1/8W 2% RLR05 15K OHMS	RLR05C1502GS	M91637	R11
028	1	060-182	RES,FILM 1/8W 2% RLR05 1.8K OHMS	RLR05C1801GS	M91637	R19

**CUBIC COMMUNICATIONS***A member of the Cubic Corporation family of companies***BILL OF MATERIAL**

09/29/97

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PART NUMBER : 2241-2016-1

TITLE: PWA,POWER AMP DRIVER

CAGE CODE: 59532

REV: C

CONTRACT NO.-

<u>FND</u>	<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>VENDOR P/N</u>	<u>CAGE</u>	<u>REFERENCE DESIGNATORS/NOTES</u>
029	1	073-169	CAP,ELECTROLYTIC,50V,DC RAD 10 UF	515D106M050JA6A	M52789	C13
030	1	073-165	CAP,ELECTROLYTIC,63V,AX 470 UF	TA470M63	M90201	C6
031	1	073-166	CAP,ELECTROLYTIC,50V,RAD 220 UF	ECE-A1HGE221	M61058	C1
032	1	073-151	CAP,ELECTROLYTIC,63V	ECE-A1JGE101	M61058	C3
033	1	073-168	CAP,ELECTROLYTIC,16V,AX 1000 UF	TA1000M16	M90201	C7
034	3	090-024	CAP,POLY 5% 50V 0.1 UF	168104J63A	M90201	C4,C5,C11
035	1	090-025	CAP,POLY 10% 100V 1 UF	160105K100H	M90201	C2
036	5	094-104	CAP,CER CHIP 10% 0.1 UF	ATC200B104KP50	M29990	C8,C9,C10,C12,C14
038	2	475-023	DIODE 1A,600V	1N4005	M04713	CR1,CR2
041	1	477-093	IC,OP AMP ,LINEAR	MC1741CP1	M04713	U2
042	1	504-046	IC,LINE DRIVER HI-SPD&I,3ST DIP-8	EL7134CN	M4Y658	U3
044	0	784-007	SOLDER,WIRE FLUX .020 DIA SN63	SN63WRMAP2	MQPL	