

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY R. ROBICHAUD	CHECKED <i>K. Russ</i>	SECTION
DATE 11-5-70	DATE 11/10/70	1
ENG <i>R. Robichaud</i>	PROD <i>A. Russ</i>	ISSUED SECT.
DATE 11-12-70	DATE 11-12-70	1

QUANTITY/VARIATION

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION
1	A-PL-A614-Ø-Ø	12 BIT DAC WITH BUF REG

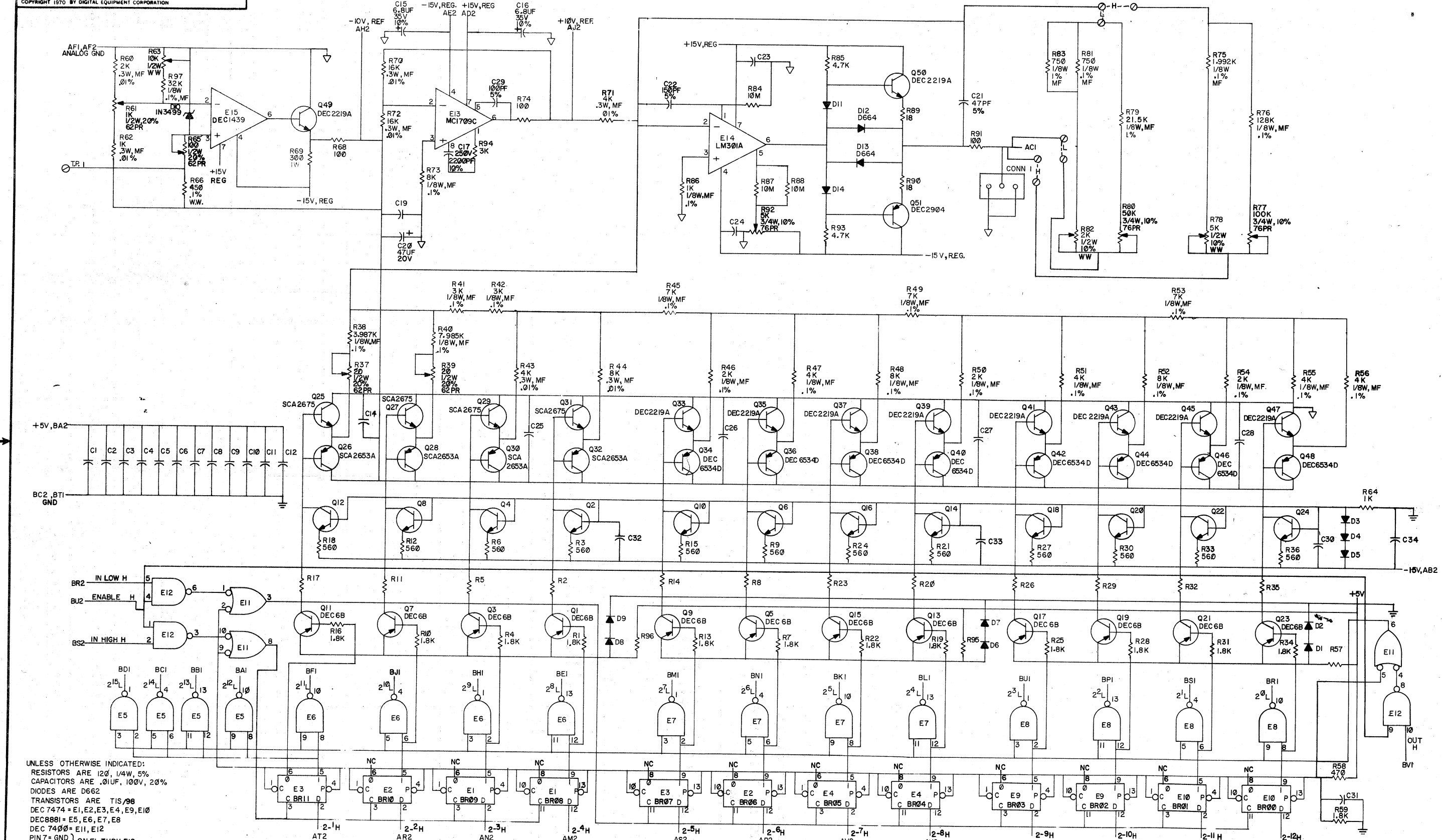
TITLE 12 BIT DAC WITH BUF REG. EA614	ASSY NO. <i>H</i>	SIZE CODE A PL	NUMBER EA614-Ø-Ø	REV. ECO NO.
	SHEET 1 OF 1	DIST.		

Date	Description	Debit	Credit	Balance
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SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1970 BY DIGITAL EQUIPMENT CORPORATION.

9 1-0-419V S5 D
 3 1-0-419V S5 D



UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 120, 1/4W, 5%
 CAPACITORS ARE .01UF, 100V, 20%
 DIODES ARE D662
 TRANSISTORS ARE T1S98
 DEC 7474 = E1, E2, E3, E4, E9, E10
 DEC 8881 = E5, E6, E7, E8
 DEC 7400 = E11, E12
 PIN 7 = GND } ON E1 THRU E12
 PIN 14 = +5V }
 --- = CUSTOMER OPTION, DO NOT INSERT
 ▽ = ANALOG GND
 ▽ = ANALOG GND

○ = SPLIT LUG
 CONNECTOR ONE (1) IS A 1209456

REV	DATE	BY	CHKD
1	9-30-70	W. J.
2	10/13/70

TRANSISTOR	DIODE	CONVERSION	CHART
DEC 7474	D662	DEC 6534D	MPS 6534
DEC 8881	D664	SCA 2653A	SAME
DEC 7400	IN 3499	SCA 2675	SAME
2N4304	SAME	T1S98	SAME
DEC 2219A	DEC 2219	DEC 6B	NONE

TITLE	SIZE	CODE	NUMBER	REV.
12 BIT BI POLAR DAC CONVERTER A614	D	CS	A614-0-1	C

REV. C
 NUMBER A614-0-1
 DATE 10/13/70

DISY. 324, 434, 435.2 (4) PINK-

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY *Mary Finerty* CHECKED *R. Walden* SECTION
 DATE *10-8-70* DATE *10/13/70*
 ENG *R. Walden* PROD *R. Silverman* ISSUED SECT.
 DATE *10/13/70* DATE *2-10-71*

ITEM NO.	DWG NO./PART NO. BASIC VAR.	DESCRIPTION	QTY/VAR	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
	D-CS-A614-0-1	CIRCUIT SCHEMATIC				
	K-CO-A614-0-4	X-Y COORDINATE HOLE LOCATION				
	E-AH-A614-0-5	ASSY./DRILLING HOLE LAYOUT				
	5009167	ETCHED CIRCUIT BOARD			1	
	1000011	CAP. 47PF, 100V, 5% D.M.			1	
	1000016	CAP. 100PF, 100V, 5%, D.M.			1	
	1000019	CAP. 150PF, 100V, 5%, D.M.			1	
	1000055	CAP. 2200PF, 250V, 10%, DISC.			1	
	1000079	CAP. 47UF, 20V, 20%, S. TANT			1	
	1001610	CAP. .01UF, 100V, 20%, DISC.			25	
	1005306	CAP. 6.8UF, 35V, 10%, S. TANT			2	
	1100113	DIODE D662			11	
	1100114	DIODE D664			2	
	1101535	DIODE IN3499			1	
	1202492	HANDLE, FLIP CHIP - AMBER			2	
	1209340	PIN, HOUSING			1	
	1209456	PIN, SOCKET			3	
TITLE 12 BIT B1 POLAR D/A CONVERTER A614						
ASSY NO.			SIZE CODE A PL	NUMBER A614-0-0	REV. C	ECO NO. 00002
SHEET 1 OF 4			DIST. 324 434 435 2			

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY *Mary Finerty* CHECKED *R. Walden* SECTION
 DATE *10-8-70* DATE *10/13/70*
 ENG *R. Walden* PROD *R. Silverman* ISSUED SECT.
 DATE *10/13/70* DATE *2-10-71*

ITEM NO.	DWG NO./PART NO. BASIC VAR.	DESCRIPTION	QTY/VAR	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
	1300229	RES. 100, 1/4W, 5%			3	
	1300247	RES. 120, 1/4W, 5%			15	
	1300292	RES. 300, 1W, 5%			1	
	1300316	RES. 470, 1/4W, 5%			1	
	1300365	RES. 1K, 1/4W, 5%			1	
	1300398	RES. 1.8K, 1/4W, 5%			13	
	1300432	RES. 3K, 1/4W, 5%			1	
	1300447	RES. 4.7K, 1/4W, 5%			2	
	1301526	RES. 450, 1/4W, .1%, WW			1	
	1301890	RES. 560, 1/4W, 5%			12	
	1302124	RES. 18, 1/4W, 5%			2	
	1302666	RES. 10M, 1/4W, .5%			3	
	1302676	RES. 3K, 1/8W, .1%, MF			2	
	1302677	RES. 1.992K, 1.8W, .1%, MF			1	
	1302678	RES. 3.987K, 1/8W, .1%, MF			1	
	1303206	RES. 7.985K, 1/8W, .1%, MF			1	
	1304865	RES. 1K, 1/8W, .1%, MF			1	
	1305353	RES. 2K, 1/8W, .1%, MF			3	
	1305354	RES. 4K, 1/8W, .1%, MF			4	
	1305355	RES. 7K, 1/8W, .1%, MF			3	
TITLE 12 BIT B1 POLAR D/A CONVERTER A614						
ASSY NO.			SIZE CODE A PL	NUMBER A614-0-0	REV. C	ECO NO. 00002
SHEET 2 OF 4			DIST.			

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY *Mary Finamore*
 DATE *10-5-70*
 ENG *R. Silberman*
 DATE *10/13/70*

CHECKED *R. Silberman*
 DATE *10/8/70*
 PROD *R. Silberman*
 DATE *2-10-71*

ITEM NO.	CL	DWG NO./PART NO. BASIC VAR.	DESCRIPTION	SECTION	ISSUED SECT.
		1305356	RES. 8K, 1/8W, .1%, MF		
		1305409	POT. 2K, 1/2W, 10%, WW		
		1305451	POT. 5K, 1/2W, 10%, WW		
		1305509	RES. 1K, .3W, .01%, MF		
		1305510	RES. 2K, .3W, .01%, MF		
		1305511	RES. 4K, .3W, .01%, MF		
		1305512	RES. 8K, .3W, .01%, MF		
		1305513	RES. 16K, .3W, .01%, MF		
		1305514	RES. 32K, 1/8W, .1%, MF		
		1305516	RES. 128K, 1/8W, .1%, MF		
		1305777	RES. 750, 1/8W, .1%, MF		
		1303155	RES. 21.5K 1/8W 1% MF		
		1305818	POT. 10K, 1/2W, 5%, WW		
		1309143-09	POT. 5K, 3/4W, 10%, 76PR		
		1309143-13	POT. 50K, 3/4W, 10%, 76PR		
		1309143-14	POT. 100K, 3/4W, 10%, 76PR		
		1309150-02	POT. 20, 1/2W, 20%, 62PR		
		1309150-03	POT. 1K, 1/2W, 20%, 62PR		
		1309150-05	POT. 100, 1/2W, 20%, 62PR		

TITLE 12 BIT B1 POLAR D/A CONVERTER
A614

ASSY NO.

SIZE CODE
A PL

NUMBER
A614-0-0

REV. ECO NO.
C 00002

SHEET 3 OF 4

DIST.

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY *Mary Finamore*
 DATE *10-5-70*
 ENG *R. Silberman*
 DATE *10/13/70*

CHECKED *R. Silberman*
 DATE *10/8/70*
 PROD *R. Silberman*
 DATE *2-10-71*

ITEM NO.	CL	DWG NO./PART NO. BASIC VAR.	DESCRIPTION	SECTION	ISSUED SECT.
		1501742	TRANSISTOR DEC 2904		
		1501881	TRANSISTOR DEC 2219		
		1503409-00	TRANSISTOR DEC 6534D		
		1509090-01	TRANSISTOR DEC 6B		
		1509813	TRANSISTOR T1S/98		
		1509852	TRANSISTOR SCA 2653A		
		1509853	TRANSISTOR SCA 2675		
		1905547	I.C. DEC 7474		
		1905575	I.C. DEC 7400		
		1909344	I.C. DEC 709C		
		1909498	I.C. DEC 301		
		1909705	I.C. DEC 8881		
		1909761	I.C. DEC 1439		
		9006732	EYELET #GS4-7 E.B. STIMPSON		
		9006735	SPLIT LUG		

TITLE 12 BIT B1 POLAR D/A CONVERTER
A614

ASSY NO.

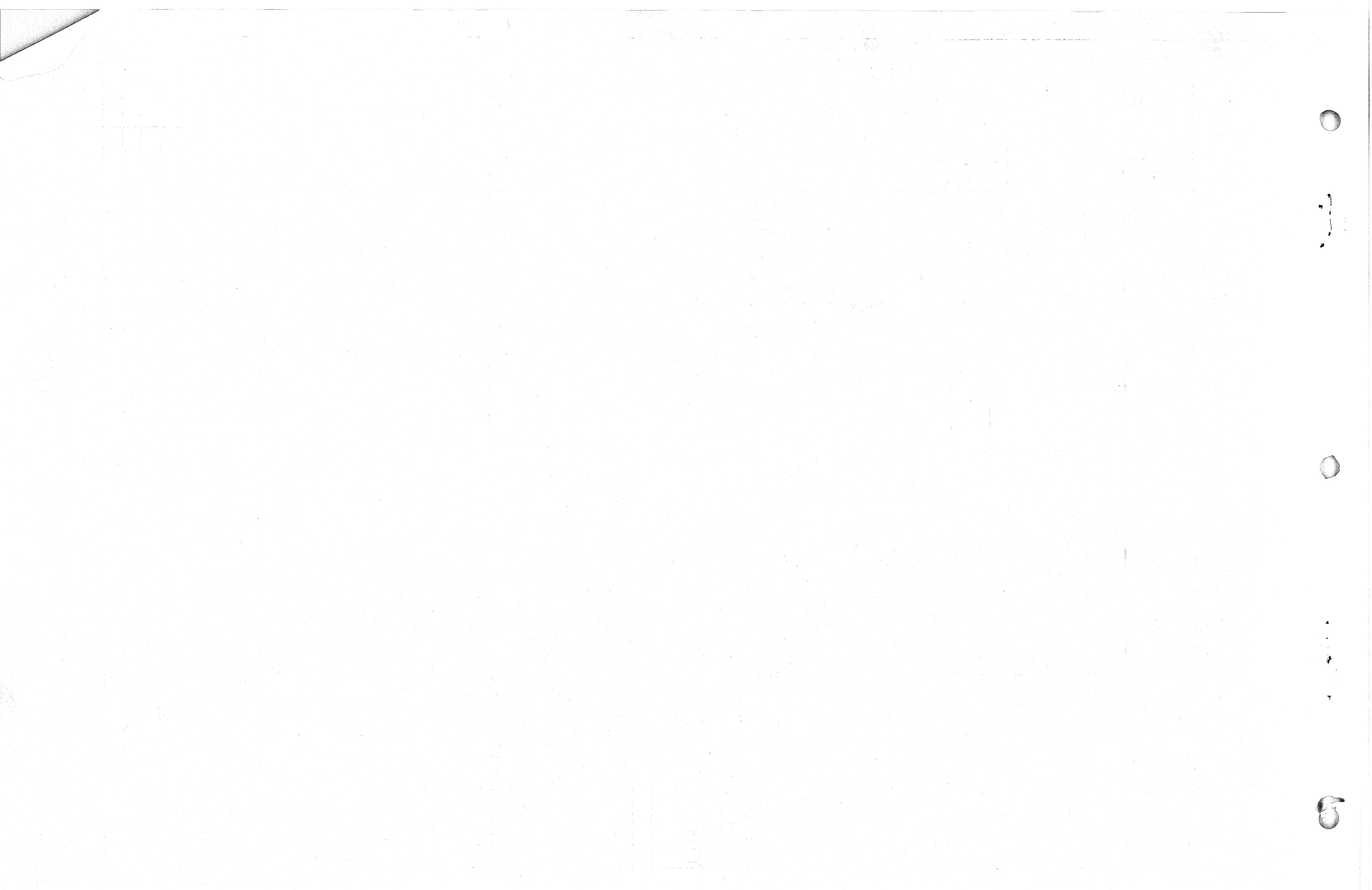
SIZE CODE
A PL

NUMBER
A614-0-0

REV. ECO NO.
C 00002

SHEET 4 OF 4

DIST.



DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS PARTS LIST			QUANTITY/VARIATION							
MADE BY R. ROBICHAUD		CHECKED <i>K. Russ</i>	SECTION							
DATE 11-5-70		DATE <i>11/10/70</i>	1							
ENG <i>R. Robichaud</i>		PROD <i>A. French</i>	ISSUED SECT.							
DATE <i>11-12-70</i>		DATE <i>11-12-70</i>	1							
ITEM NO.	DWG NO. / PART NO.	DESCRIPTION								
1	A-PL-A614-0-0	12 BIT DAC WITH BUF REG	1							
TITLE 12 BIT DAC WITH BUF REG. BA614			ASSY NO. <i>#</i>	SIZE A	CODE PL	NUMBER BA614-0-0	REV.	ECO NO.		
			SHEET 1	OF 1	DIST.					



DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY <i>Mary Finney</i>		CHECKED <i>R. Walchin</i>		SECTION
DATE <i>10-8-70</i>		DATE <i>10/13/70</i>		ISSUED SECT.
ENG <i>R. Pagan</i>		PROD <i>R. Silberman</i>		ISSUED SECT.
DATE <i>10/13/70</i>		DATE <i>2-10-71</i>		

ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
1305356		RES. 8K, 1/8W, .1%, MF		3	
1305409		POT. 2K, .3W, 10%, WW		1	
1305451		POT. 5K, .3W, 10%, WW		1	
1305509		RES. 1K, .3W, .01%, MF		1	
1305510		RES. 2K, .3W, .01%, MF		1	
1305511		RES. 4K, .3W, .01%, MF		2	
1305512		RES. 8K, .3W, .01%, MF		1	
1305513		RES. 16K, .3W, .01%, MF		2	
1305514		RES. 32K, 1/8W, .1%, MF		1	
1305516		RES. 128K, 1/8W, .1%, MF		1	
1305777		RES. 750, 1/8W, .1%, MF		2	
1303155		RES. 21.5K 1/8W 1% MF		1	
1305818		POT. 10K, .3W, 5%, WW		1	
1309143-09		POT. 5K, 3/4W, 10%, 76PR		1	
1309143-13		POT. 50K, 3/4W, 10%, 76PR		1	
1309143-14		POT. 100K, 3/4W, 10%, 76PR		1	
1309150-02		POT. 20, .3W, 20%, 62PR		2	
1309150-03		POT. 1K, .3W, 20%, 62PR		1	
1309150-05		POT. 100, .3W, 20%, 62PR		1	

TITLE 12 BIT B1 POLAR D/A CONVERTER A614	ASSY NO.	SIZE CODE A PL	NUMBER A614-0-0	REV. C	ECO NO. 00002
SHEET 3 OF 4		DIST.			

DEC FORM NO. 16-1027
DRA 123

5 PINK-

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY <i>Mary Finney</i>		CHECKED <i>R. Walchin</i>		SECTION
DATE <i>10-8-70</i>		DATE <i>10/13/70</i>		ISSUED SECT.
ENG <i>R. Pagan</i>		PROD <i>R. Silberman</i>		ISSUED SECT.
DATE <i>10/13/70</i>		DATE <i>2-10-71</i>		

ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
D-CS-A614-0-1		CIRCUIT SCHEMATIC			
K-CO-A614-0-4		X-Y COORDINATE HOLE LOCATION			
E-AH-A614-0-5		ASSY./DRILLING HOLE LAYOUT			
5009167		ETCHED CIRCUIT BOARD		1	
1000011		CAP. 47PF, 100V, 5% D.M.		1	
1000016		CAP. 100PF, 100V, 5% D.M.		1	
1000019		CAP. 150PF, 100V, 5% D.M.		1	
1000055		CAP. 220PF, 250V, 10% DISC.		1	
1000079		CAP. 47UF, 20V, 20%, S. TANT		1	
1001610		CAP. .01UF, 100V, 20%, DISC.		26	
1005906		CAP. 6.8UF, 35V, 10%, S. TANT		2	
1100113		DIODE D662		11	
1100114		DIODE D664		2	
1101535		DIODE IN3499		1	
1202492		HANDLE, FLIP CHIP - AMBER		2	
1209340		PIN, RESISTOR		1	
1209456		PIN, SOCKET		3	

TITLE 12 BIT B1 POLAR D/A CONVERTER A614	ASSY NO.	SIZE CODE A PL	NUMBER A614-0-0	REV. C	ECO NO. 00002
SHEET 1 OF 4		DIST.			

DEC FORM NO. 16-1027
DRA 123

5 PINK-

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY <i>Mary Finney</i>		CHECKED <i>R. Walchin</i>		SECTION
DATE <i>10-8-70</i>		DATE <i>10/13/70</i>		ISSUED SECT.
ENG <i>R. Pagan</i>		PROD <i>R. Silberman</i>		ISSUED SECT.
DATE <i>10/13/70</i>		DATE <i>2-10-71</i>		

ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
1501742		TRANSISTOR DEC 2904			1
1501881		TRANSISTOR DEC 2219			10
1503409-00		TRANSISTOR DEC 6534D			8
1509090-01		TRANSISTOR DEC 6B			12
1509813		TRANSISTOR T1S/98			12
1509852		TRANSISTOR SCA 2653A			4
1509853		TRANSISTOR SCA 2675			4
1905547		I.C. DEC 7474			6
1905575		I.C. DEC 7400			2
1909344		I.C. DEC 709C			1
1909498		I.C. DEC 301			1
1909705		I.C. DEC 8881			4
1909761		I.C. DEC 1439			1
9006732		EYELET #GS4-7 E.B. STIMPSON			6
9006735		SPLIT LUG			8

TITLE 12 BIT B1 POLAR D/A CONVERTER A614	ASSY NO.	SIZE CODE A PL	NUMBER A614-0-0	REV. C	ECO NO. 00002
SHEET 4 OF 4		DIST.			

DEC FORM NO. 16-1027
DRA 123

5 PINK-

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY <i>Mary Finney</i>		CHECKED <i>R. Walchin</i>		SECTION
DATE <i>10-8-70</i>		DATE <i>10/13/70</i>		ISSUED SECT.
ENG <i>R. Pagan</i>		PROD <i>R. Silberman</i>		ISSUED SECT.
DATE <i>10/13/70</i>		DATE <i>2-10-71</i>		

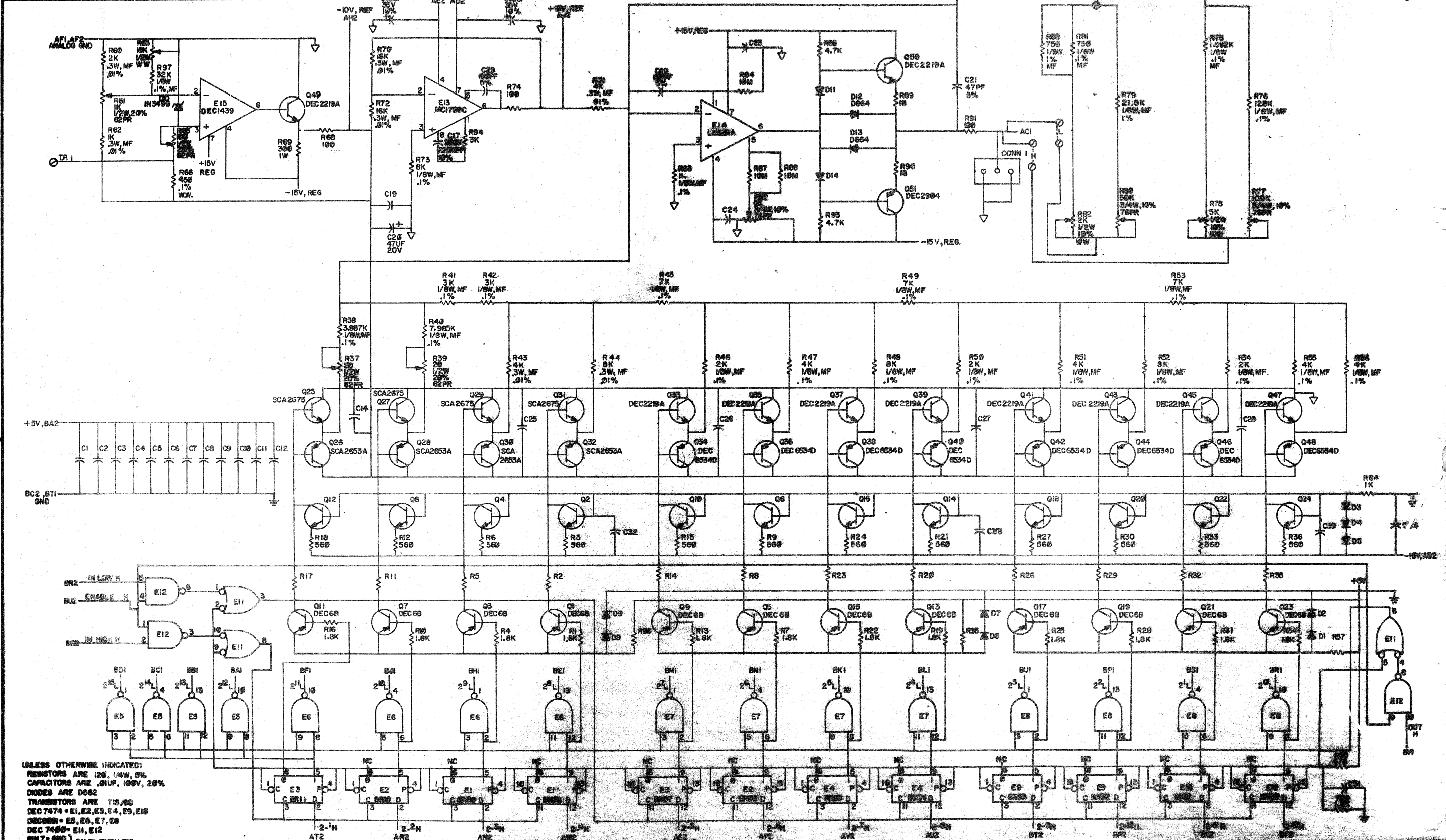
ITEM NO.	DWG NO./PART NO. CL BASIC VAR.	DESCRIPTION	UNIT COST	UNIT QUANTITY	QUANTITY ISSUED
1300229		RES. 100, .3W, 5%			3
1300247		RES. 120, .3W, 5%			15
1300292		RES. 300, 1W, 5%			1
1300316		RES. 470, .3W, 5%			1
1300365		RES. 1K, .3W, 5%			1
1300398		RES. 1.8K, .3W, 5%			13
1300432		RES. 3K, .3W, 5%			1
1300447		RES. 4.7K, .3W, 5%			2
1301526		RES. 450, .3W, .1%, WW			1
1301890		RES. 560, .3W, 5%			12
1302124		RES. 18, .3W, 5%			2
1302666		RES. 10M, .3W, 5%			3
1302676		RES. 3K, 1/8W, .1%, MF			2
1302677		RES. 1.992K, 1.8W, .1%, MF			1
1302678		RES. 3.987K, 1/8W, .1%, MF			1
1303206		RES. 7.985K, 1/8W, .1%, MF			1
1304865		RES. 1K, 1/8W, .1%, MF			1
1305353		RES. 2K, 1/8W, .1%, MF			3
1305354		RES. 4K, 1/8W, .1%, MF			4
1305355		RES. 7K, 1/8W, .1%, MF			3

TITLE 12 BIT B1 POLAR D/A CONVERTER A614	ASSY NO.	SIZE CODE A PL	NUMBER A614-0-0	REV. C	ECO NO. 00002
SHEET 2 OF 4		DIST.			

DEC FORM NO. 16-1027
DRA 123

5 PINK-

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UNLESS OTHERWISE INDICATED:
 RESISTORS ARE 1/8W, 5%
 CAPACITORS ARE .01UF, 100V, 20%
 DIODES ARE D062
 TRANSISTORS ARE T16/SC
 DEC 7474 = E1, E2, E3, E4, E9, E10
 DEC 6534 = E5, E6, E7, E8
 DEC 7460 = E11, E12
 PIN 7 = GND ON E1 THRU E8
 PIN 14 = +5V
 CUSTOMER OPTION, DO NOT INSERT
 ANALOG GND
 SHELD IS TIED TO ANALOG GND

⊕ = SPLIT LUG
 CONNECTOR ONE (1) IS A 1299486

BIT BIPOLAR DAC
 CONVERTER 8614

PINK