



REVISIONS				
SYM	DESCRIPTION	DRAWN	DATE	FILMED
		APPD.	DATE	
A	REVISED BY J. SCHLUCHTER	G.L.Z.	9/5/71	
Δ	INTERCHANGED CLK SECTION IC PACK 'XX', 4.7K WAS 1K, ADDED 1-7.5K, F 2-33K (ISSUE 2)	G.L.Z.	10-26-71	
C	ADDED FOLLOWING: Z-52† F ATSI TO FUNCTION CODE PA: INHIBIT CLOCK; DISSE ON +5V LINE (2) 1K & VALUES AT PAD WERE REVERSED; PINS 1 & 3 OFF XX WERE REVERSED, DELETED NEGATION SIGN OF PIN 6 OF X.	G.S.Z.	6-14-72	
D	DRWG. NO. REVISED			H.J.K. 1-31-75

- FUNCTION CODES**
- F(0)·A(0) — READ & INHIBIT COUNTER
 - F(0)·A(1) — READ STATUS BITS
 - F(6)·A(0) — READ MODULE NUMBER
 - Δ Z-52† F(9)·A(0)·S1 — CLEAR & INHIBIT COUNTER ATSI
 - F(12)·A(0)·S1 — RESET
 - F(16)·A(0) — INHIBIT CLOCK
 - F(16)·A(0)·S1 — LOAD COUNTER, POLARITY & SIGN BITS
 - F(28)·A(0)·S1 — OFF
 - F(30)·A(0)·S1 — ON

INTEGRATED CIRCUITS	USED	PACKAGES	UNUSED
7400	24	6	—
7402	8	2	—
7403	11	3	—
7404	35	6	—
7405	18	3	—
7408	3	1	—
7410	3	1	—
7417	6	1	—
7420	2	1	—
7438	4	1	—
7474	3	2	1
74107	2	1	—
74121	2	2	—
74154	2	2	—
74193	4	4	—
9602	2	3	—
75451	2	1	—
		40	
RELAYS	6	6	—
TRANSFORMERS	2	2	—
		48	

ITEM NO.	PART NO.	DESCRIPTION	QTY. REQ.
PARTS LIST			
UNLESS OTHERWISE SPECIFIED		ORIGINATOR	E. BAROTTI
FRACTIONS	DECIMALS	ANGLES	DRAWN
±	±	±	G.L.ZAKHAR 7/2/71
1. BREAK ALL SHARP EDGES 1/64 MAX.		APPROVED	
2. DO NOT SCALE DWG.		APPROVED	
3. DIMENSIONING IN ACCORD WITH USASI Y14.5 STD.		USED ON	
✓ MAX. ALL MACHINED SURFACES		MATERIAL-	
NATIONAL ACCELERATOR LABORATORY U.S. ATOMIC ENERGY COMMISSION			
<i>BEAMS SYSTEMS CAMAC MODULE #154 STEP MOTOR CONTROLLER</i>			
SCALE	FILMED	DRAWING NUMBER	REV.
	FD	0680-ED-104081	E