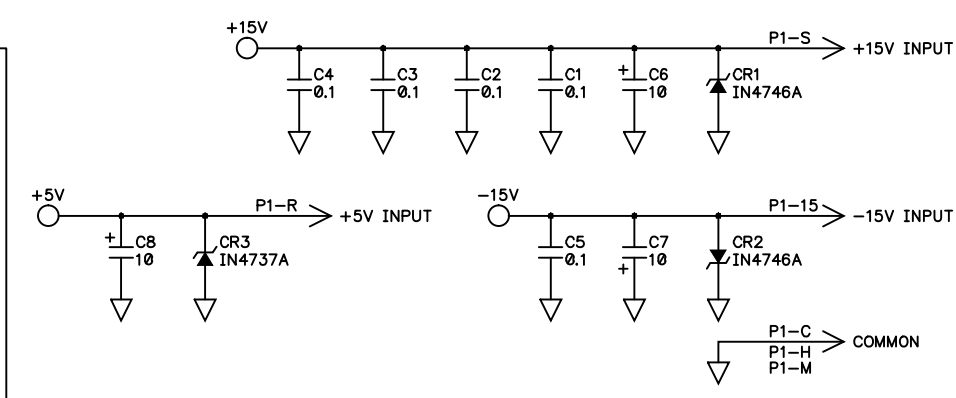
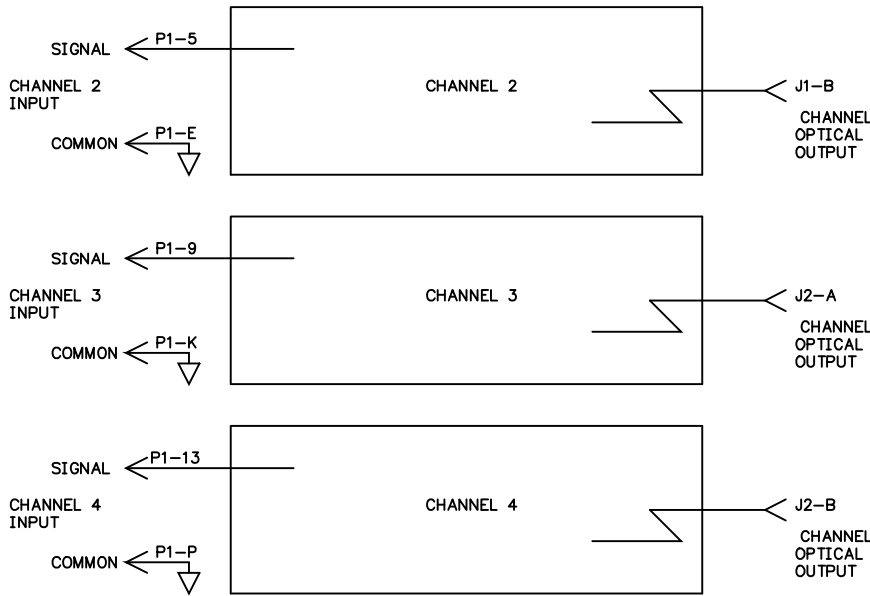
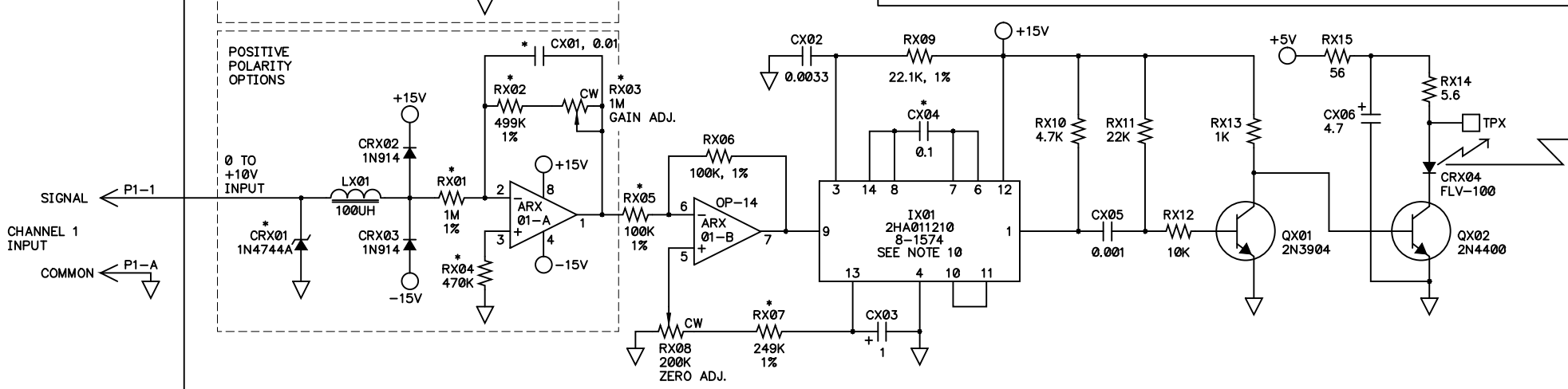


CHANNEL 1
TYPICAL CIRCUIT,
4 CHANNELS



- NOTES:**
1. THE FIRST DIGIT IN THE COMPONENT NUMBER INDICATES THE CHANNEL IN WHICH IT IS USED. FOR EXAMPLE, RX01 IS R101 FOR CHANNEL 1 AND R401 FOR CHANNEL 4.
 2. "*" INDICATES THAT A COMPONENT VALUE CHANGES WITH THE OPTION USED. SEE OPTION TABLE.
 3. FOR POSITIVE POLARITY OPTIONS, INSTALL RX01 AND RX04. DELETE CX07, RX16, RX17 AND RX18. INSTALL CRX01 FOR POSITIVE POLARITY OUTPUT. SEE OPTION TABLE FOR VALUES.
 4. FOR NEGATIVE POLARITY OPTIONS, INSTALL CX07, RX16, RX17 AND RX18. DELETE RX01 AND RX04. INSTALL CRX01 FOR NEGATIVE POLARITY OUTPUT. SEE OPTION TABLE FOR VALUES.
 5. ADJUST RX08 (ZERO ADJ.) FOR OUTPUT FREQUENCY SPECIFIED IN QA#E-376 WITH ZERO VOLTAGE INPUT.
 6. ADJUST RX03 (GAIN ADJ.) FOR MAXIMUM OUTPUT FREQUENCY WITH FULL SCALE VOLTAGE INPUT.
 7. J1 AND J2 ARE 2 POSITION OPTICAL CONNECTORS.
 8. P1 IS A 15 POSITION DUAL READOUT EDGE CONNECTOR.
 9. RX09 AND CX02 ARE LOW TEMPERATURE DRIFT COMPONENTS.
 10. BOARDS MADE PREVIOUS TO 6/13 USED 8IC000453 FOR IX01.



PART NO.		CHOOSE ONE OPTION FOR EACH CHANNEL					FUNCTION		
OTA	CH 4	CH 3	CH 2	CH 1		INPUT VOLTAGE	OUTPUT FREQUENCY	NOMINAL BANDWIDTH	
ZHC	2	0	0	0	9	EMPTY			
		1	1	1		0 TO +10 VDC	1 TO 10 KHZ	10 HZ	
		2	2	2		0 TO -10 VDC	1 TO 10 KHZ	10 HZ	
		3	3	3		0 TO +5 VDC	1 TO 10 KHZ	10 HZ	
		4	4	4		0 TO +1 VDC	1 TO 10 KHZ	10 HZ	
		5	5	5		0 TO -5 VDC	1 TO 10 KHZ	10 HZ	
		6	6	6		0 TO +10 VDC	5 TO 10 KHZ	100 HZ	
		7	7	7		-2 TO +10 VDC	5 TO 10 KHZ	400 HZ	
		8	8	8		-.5 TO +.5 VDC	5 TO 10 KHZ	300 HZ	
		9	9	9					

INDIVIDUAL CHANNEL OPTIONS													
OPTION	CX01	CX04	CX07	CRX01	RX01	RX02	RX03	RX04	RX05	RX07	RX16	RX17	RX18
1	0.01UF 100V	.1UF 100V	DELETE	1N4744, INSTALL FOR + POLARITY	1M 1/4W, 1%	499K 1/4W, 1%	1M POT	470K 1/4W, 10%	100K 1/4W, 1%	249K 1/4W, 1%	DELETE	DELETE	DELETE
2	0.01UF 100V	.1UF 100V	0.01UF 100V	1N4744, INSTALL FOR - POLARITY	DELETE	499K 1/4W, 1%	1M POT	DELETE	100K 1/4W, 1%	249K 1/4W, 1%	1M 1/4W, 1%	1M 1/4W, 1%	1M 1/4W, 1%
3	0.01UF 100V	.1UF 100V	DELETE	1N4744, INSTALL FOR + POLARITY	499K 1/4W, 1%	499K 1/4W, 1%	1M POT	270K 1/4W, 10%	100K 1/4W, 1%	249K 1/4W, 1%	DELETE	DELETE	DELETE
4	0.01UF 100V	.1UF 100V	DELETE	1N4744, INSTALL FOR + POLARITY	100K 1/4W, 1%	499K 1/4W, 1%	1M POT	100K 1/4W, 10%	100K 1/4W, 1%	249K 1/4W, 1%	DELETE	DELETE	DELETE
5	0.01UF 100V	.1UF 100V	0.01UF 100V	1N4744, INSTALL FOR - POLARITY	DELETE	499K 1/4W, 1%	1M POT	DELETE	100K 1/4W, 1%	249K 1/4W, 1%	1M 1/4W, 1%	499K 1/4W, 1%	499K 1/4W, 1%
6	0.0022UF 100V	.1UF 100V	DELETE	1N4744, INSTALL FOR + POLARITY	1M 1/4W, 1%	150K 1/4W, 1%	200K POT	220K 1/4W, 10%	49.9K 1/4W, 1%	49.9K 1/4W, 1%	DELETE	DELETE	DELETE
7	680PF 100V	.047UF 100V	DELETE	SA15CA, NOT POLARIZED	1/4W, 1%	1/4W, 1%	50K POT	180K 1/4W, 10%	51K 1/4W, 5%	24.9K 1/4W, 1%	DELETE	DELETE	DELETE
8	680PF 100V	.047UF 100V	DELETE	SA10CA, NOT POLARIZED	100K 1/4W, 1%	150K 1/4W, 1%	50K POT	68K 1/4W, 10%	35.7K 1/4W, 1%	24.9K 1/4W, 1%	DELETE	DELETE	DELETE
9													

G	ADDED OPTIONS 7 & 8	NLP/5/91/JAH/5/91	8-3-29, 8-6-247, 8-5-3065
F	ADDED OPTION 6, REDRAWN ON CAD	SHP/7/91/PDC/7/91	
NO.	REVISION	BY	DATE
TOLERANCES AND FINISH UNLESS OTHERWISE SPECIFIED			
FRACTIONAL	DEC	ANGLE	MACH
±1/64"	±.005	±.5°	125 ✓
THIRD ANGLE PROJECTION			
DESIGNED	SCALE	DATE	
SHP	NTS		
NATIONAL ELECTROSTATICS CORPORATION MIDDLETON, WISCONSIN			
ANLOG TRANSMITTER - SCHEMATIC			
PART NO. 2HS034540		DWG NO. 8-3454	
REV'D OPTIONS 7 & 8		LOC CV	