

Bill Of Materials for p4t_d2.sch on Mon Oct 4 18:48:44 1999

Shure P/N	Qty	Description			Ref. Des.
140A11	1				Y601
140A14	1	Dielectric Resonator			FL55
140C15	1	Ceramic resonators			Y1
145BF1500	4	SMT Resistor	150	1%	R105-108
145BF7500	4	SMT Resistor	750	1%	R100-103
145BJ1R0	3	SMT Resistor	1	5%	R901-903
145CF1212	4	SMT Resistor	12.1K	1%	R201 R207 R302 R307
145FF000	8	SMT Resistor	0	5%	R116 R409 R507 R509 R517 R519 R712 R715
145FF1000	5	SMT Resistor	100	1%	R32 R406 R710 R713 R839
145FF1001	22	SMT Resistor	1.00K	1%	R3 R5 R8-23 R41 R617 R809 R823
145FF1002	20	SMT Resistor	10.0K	1%	R4 R6 R26 R40 R51 R90-91 R115 R211-212 R311-312 R408 R504 R514 R619 R711 R714 R908-909
145FF1003	21	SMT Resistor	100K	1%	R7 R38 R202 R206 R215 R301 R306 R315 R404 R407 R701-703 R705-707 R803 R805 R828-829 R913
145FF1004	5	SMT Resistor	1.00M	1%	R405 R622 R830-831 R838
145FF1212	2	SMT Resistor	12.1K	1%	R602 R604
145FF1500	1	SMT Resistor	150	1%	R36
145FF1501	2	SMT Resistor	1.50K	1%	R44 R110
145FF1503	3	SMT Resistor	150K	1%	R834-835 R912
145FF2000	4	SMT Resistor	200	1%	R816 R821-822 R827
145FF2001	4	SMT Resistor	2.00K	1%	R610 R612 R817 R826
145FF2002	7	SMT Resistor	20.0K	1%	R204 R209 R214 R304 R309 R314 R807
145FF2003	5	SMT Resistor	200K	1%	R403 R613-614 R802 R804
145FF2004	2	SMT Resistor	2.00M	1%	R25 R27
145FF2210	1	SMT Resistor	221	1%	R54
145FF2490	3	SMT Resistor	249	1%	R29 R92 R905
145FF2491	3	SMT Resistor	2.49K	1%	R607 R615-616
145FF2492	1	SMT Resistor	24.9K	1%	R620
145FF2493	2	SMT Resistor	249K	1%	R601 R603
145FF3011	1	SMT Resistor	3.01K	1%	R907
145FF3321	3	SMT Resistor	3.32K	1%	R216 R316 R611
145FF3651	1	SMT Resistor	3.65K	1%	R109

ISS.	Record of Changes Made		Exp Dwg. No:
1.	Production Release		Used in: P7T
			SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847-866-2200 <i>Microphones-Electronic Components</i>
			Typed: A Voukidis 10/7/98
			Checked: A. Voukidis 10/22/98
			Approved: K. Mikes 10/26/98
			Approved:

145FF3652	4	SMT Resistor	36.5K	1%		R502-503 R512-513
145FF3921	1	SMT Resistor	3.92K	1%		R53
145FF4020	1	SMT Resistor	402	1%		R34
145FF4021	10	SMT Resistor	4.02K	1%		R213 R218 R313 R318 R812-815 R824-825
145FF4022	4	SMT Resistor	40.2K	1%		R510 R520 R606 R621
145FF4023	2	SMT Resistor	402K	1%		R836-837
145FF4321	1		4.32K	1%		R52
145FF4990	2	SMT Resistor	499	1%		R2 R39
145FF4991	6	SMT Resistor	4.99K	1%		R37 R45 R205 R210 R305 R310
145FF4992	11	SMT Resistor	49.9K	1%		R24 R33 R47 R219 R319 R401-402 R501 R511 R605 R618
145FF4993	2	SMT Resistor	499K	1%		R832-833
145FF6041	2	SMT Resistor	6.04K	1%		R220 R320
145FF6042	2	SMT Resistor	60.4K	1%		R505 R515
145FF7500	4	SMT Resistor	750	1%		R30-31 R93 R104
145FF7501	7	SMT Resistor	7.50K	1%		R203 R208 R217 R303 R308 R317 R906
145FF7502	3	SMT Resistor	75.0K	1%		R414 R506 R516
145FF10R0	3	SMT Resistor	10.0	1%		R910-911 R914
145FF49R9	5	SMT Resistor	49.9	1%		R1 R111-113 R123
146B02	1	RESISTOR VARIABLE	1K ohm			R35
146F02	2	Trimpot	20kOhm			R508 R518
146H02	2	Trimpot	100k			R410 R608
150AD224KB	5	SMT Capacitor	.22uF	10%	25V	C505 C515 C701-702 C815
150DA223JB	1	SMT Capacitor	.022	5%	50V	C611
			uF			
150DB181JA	1	SMT Capacitor	180pF	5%	100V	C615
150DB392JB	2	SMT Capacitor	3900pF	5%	100V	C509 C519
150DB682KB	1	SMT Capacitor	6800pF	10%	100V	C616
150GA103KB	17	SMT Capacitor	.01uF	10%	50V	C1-3 C5-7 C15 C19 C33 C42 C94-95 C97 C102-103 C118 C120
150GA151JA	1	SMT Capacitor	150pF	5%	50V	C111
150GA222JB	1	SMT Capacitor	.0022u	5%	50V	C617
			F			
150GA223KB	2	SMT Capacitor	.022uF	10%	50V	C211 C311
150GA332KB	1	SMT Capacitor	.0033u	10%	50V	C46
			F			
150GA472KB	1	SMT Capacitor	.0047u	10%	50V	C609
			F			

ISS.	Record of Changes Made		Exp Dwg. No:
1.	Production Release		Used in: P7T
			SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847-866-2200 <i>Microphones-Electronic Components</i>
			Typed: A Voukidis 10/7/98
			Checked: A. Voukidis 10/22/98
			Approved: K. Mikes 10/26/98
			Approved:

150GA682KB	2	SMT Capacitor	.0068u F	10%	50V	C802 C805
150GB100JA	1	SMT Capacitor	10pF	5%	100V	C607
150GB101JA	30	SMT Capacitor	100pF	5%	100V	C123 C155 C201 C204 C210 C212 C250 C301 C304 C310 C312 C401-402 C425-426 C521-522 C606 C621-623 C625 C707-709 C711 C807 C900 C911 C914
150GB102JB	5	SMT Capacitor	1000pF	5%	100V	C602 C604 C614 C901 C905
150GB108BA	1	SMT Capacitor	1.0pF	.1p F	100V	C55
150GB120JA	3	SMT Capacitor	12pF	5%	100V	C60 C110 C119
150GB151JA	3	SMT Capacitor	150pF	5%	100V	C126 C506 C516
150GB221JA	3	SMT Capacitor	220pF	5%	100V	C104-105 C121
150GB228BA	1	SMT Capacitor	2.2 pF	.1pF	100V	C54
150GB270JA	14	SMT Capacitor	27pF	5%	100V	C34 C37-39 C45 C92 C203 C206 C303 C306 C703-704 C712-713
150GB271JA	2	SMT Capacitor	270pF	5%	100V	C213 C313
150GB330JA	5	SMT Capacitor	33pF	5%	100V	C50 C58 C61 C502 C512
150GB338BA	2	SMT Capacitor	3.3 pF	.1pF	100V	C36 C128
150GB398BA	1	SMT Capacitor	3.9 pF	.1PF	100V	C106
150GB470JA	1	SMT Capacitor	47pF	5%	100V	C122
150GB561JA	2	SMT Capacitor	560pF	5%	100V	C112 C125
150GB688CA	1	SMT Capacitor	6.8 pF	.25PF	100V	C100
150GB820JA	3	SMT Capacitor	82pF	5%	100V	C40 C129 C153
150GC104KB	15	SMT Capacitor	.1uF	10%	16V	C29 C501 C511 C608 C610 C620 C624 C801 C804 C808 C811-812 C903 C908 C913
151AC476MD	2	SMT Capacitor	47uF	20%	10V	C4 C31
151AD105KA	1	SMT Capacitor	1uF	10%	16V	C619
151AD474KA	3	SMT Capacitor	.47uF	10%	16V	C30 C32 C35
151AD475KB	16	SMT Capacitor	4.7uF	10%	16V	C18 C44 C96 C101 C403 C503-504 C508 C513-514 C518 C803 C806 C814 C906-907
151AE226KD	1	SMT Capacitor	22uF	10%	20V	C43
151BD107MD	4	SMT Capacitor	100uF	20%	16V	C705-706 C904 C910
151BF226KD	1	SMT Capacitor	22uF	10%	35V	C613
151BG105KB	3	SMT Capacitor	1uF	10%	50V	C8 C510 C520
151BG106KD	7	SMT Capacitor	10uF	10%	50V	C507 C517 C601 C603 C605 C810 C912
151BG476MF	3		47uF			C612 C710 C902

ISS.	Record of Changes Made		Exp Dwg. No:
1.	Production Release		Used in: P7T
			SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847-866-2200 <i>Microphones-Electronic Components</i>
			Typed: A Voukidis 10/7/98
			Checked: A. Voukidis 10/22/98
			Approved: K. Mikes 10/26/98
			Approved:

Description: P4T TRANSMITTER PCB ASSEMBLY	DRWG NO. 90-
Refer To Drawing NOS. 90--11	Page 4 of 6

151BH106MD	4	Polarized Capacitor	10uF	20%	63V	C207-208	C307-308
151CD336MD	2	Non-polarized Electrolytic Capacitor	33uF	20%	16V	C209	C309
151CG106MD	4	Non-polarized Electrolytic Capacitor	10uF	20%		C202	C205 C302 C305
152A04	1	CAPACITOR TRIM SURFACE MOUNT	1.4-3.			C53	
152F03	1	CAPACITOR TRIM SURFACE MOUNT	5.0-40			C41	
162A12	1	FERRITE BEAD SURFACE MOUNT				L901	
162A25	3	SMT INDUCTOR	100nH			L30	L50 L53
162A28	2	Low Pass Filter				FL100-101	
162N25	1	SMT INDUCTOR	10nH			L58	
162R10	2	INDUCTOR SURFACE MOUNT (0805)	180nH			L101	L103
162W10	1	INDUCTOR SURFACE MOUNT (0805)	8.2nH			L102	
183A01	2					Q110	Q401
183A27	1	Transistor				Q90	
183A36	1	NPN SILICON HIGH-FREQUENCY TRANSISTORS				Q102	
183A37	1					Q100	
183A46	2	Power MOSFET				Q101	Q103
183A48	2	Transistor				Q50-51	
184A07	2	Diode-Switching-Dual				D401	D801
184A08	13					D1-2	D90 D112 D402 D601-602 D701-702 D802-803 D902-903
184A20	1	Diode-Power				D901	
184A36	1	SMT VARACTOR DIODE				D50	
188A01	1	Compandor				U502	
188A18	7	Dual Op Amp				U250	U402 U501 U602 U801 U905-906
188A49	3	Quad Op Amp				U201	U301 U701
188A118	1	Dual Op Amp				U30	
188A123	3	Quad Comparator				U401	U802-803
188A131	1	4K-Bit serial EEPROM IC				U4	
188A204	5	Adj. positive voltage regulator				U15	U90 U901-903
188A216	2	8 bit serial in parallel out				U1-2	

ISS.	Record of Changes Made	Exp Dwg. No: Used in: P7T
1.	Production Release	
		SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847-866-2200 <i>Microphones-Electronic Components</i>
		Typed: A Voukidis 10/7/98
		Checked: A. Voukidis 10/22/98
		Approved: K. Mikes 10/26/98
		Approved:

188A221	1	Stereo Modulator			U601
188A238	1	IC SMD MICROCONTROLLER			U5
188A265	1	Serial input PLL			U29
		frequency synthesizer			
188A319	1	SPST CMOS Analog Switch			SW601
188C210	1				U3
40A8012	1	CRYSTAL 4MHZ			Y30
46GD8083AC	1	Potentiometer w/ no	500K	20%	R718
		Center Detent			
53A8482	1	VCO Shield			U50
55C8105	2	SWITCH MINIATURE KEY			SW1 SW20
82A8030	1				L601
86A8444	2				LED1-2
86A8988	2				FL201 FL301
95A8272	1				J5
95A8278	1				J2
95A8839	1	1/8 Inch Headphone Jack			J701
95A8854	1				J6
95D8628	2	LED Bar			D804-805
95Z8322	4	.250" Phone jack			J201-202 J301-302
C0603	6	Dummy capacitor	See table		C51-52 C56-57 C59 C154
R0603	13	Dummy resistor	See table		R117-119 R190-197 R521-522

TABLE:

Note 1: Group Dependent Components and NO STUFFS

		90A8816D	90B8816D	90Cxxxx
C51	"VCO"	150NB478BA	150NB398BA	
C52	"VCO"	150GB509BA	NOT PLACED	
C56	"VCO"	150GB478BA	150GB108BA	
C57	"VCO"	150GB228BA	150GB228BA	
C59	"VCO"	150GB478BA	150GB478BA	
C154		NOT PLACED	NOT PLACED	NOT PLACED
R117		NOT PLACED		
R118		NOT PLACED		
R119		NOT PLACED		
R190 " GROUP A"		145FF000	NOT PLACED	NOT PLACED
R191 " GROUP B"		NOT PLACED	145FF000	NOT PLACED

ISS.	Record of Changes Made		Exp Dwg. No:
1.	Production Release		Used in: P7T
			SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847-866-2200 <i>Microphones-Electronic Components</i>
			Typed: A Voukidis 10/7/98
			Checked: A. Voukidis 10/22/98
			Approved: K. Mikes 10/26/98
			Approved:

Description: P4T TRANSMITTER PCB ASSEMBLY	DRWG NO. 90-
Refer To Drawing NOS. 90--11	Page 6 of 6

R192 " GROUP C"	NOT PLACED	NOT PLACED	45FF000
R193,R194,R195, R196,R197	NOT PLACED	NOT PLACED	NOT PLACED
R712,R715,R834,R835	145FF000		
R409,R507,R509,R517,R519	145FF000		
R521,R522	NOT PLACED		
SOFTWARE			

ISS.	Record of Changes Made		Exp Dwg. No:
1.	Production Release		Used in: P7T
			SHURE BROTHERS INC. 222 HARTREY AVENUE EVANSTON, IL 60202 PHONE 847-866-2200 <i>Microphones-Electronic Components</i>
			Typed: A Voukidis 10/7/98
			Checked: A. Voukidis 10/22/98
			Approved: K. Mikes 10/26/98
			Approved: