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PARTS LIST

Model PA6-2EF-HMS

This section contains parts lists for the Model PA6-2EF-HMS power amplifier. It has the top assembly listing followed by listings of the various subassemblies, down to the piece part level.

PA6-2EF-HMS

100mW/300W UHF HMS Top Assembly

Reference No.	Part Description	Manufacturer part number	Qty
	PA6 HMS Amp Sub Assy	PA6-HMS-AMP-SA	1
	Mech for HMS Series	MECH-1-HMS-SA	1
	Control Board	T-101298-H-SA	1
	Panel Meter Board	101921-SA	1
	Interconnect Board	101943-SA	1
	LED Board	101947-SA	1
	Cable Assembly	101950-SA	1
	Air Duct Assembly	V14-101904-1-SA	1
	Power Supply 28V 1000W	PS28-20	1

Mech for HMS Series

MECH-1-HMS-SA

Reference No.	Part Description	TPL Part Number	Qty.
	Panel Front	V14-101902	1
	Panel Rear	V14-101903	1
	Air Baffle	V14-101908	1
	Screen, Front Panel	V14-101909	1
	Chassis, Amp	V14-101901	1
P1	Recepticle, AC, Male	J6-108	1
	Line Cord ASSY	J6-107	1
	Fuse Holder	J2-109	1

**Panel Meter Board
101921-SA**

Qty	Reference	Value	Description	TPL P/N
1			PC Board	101920
1			LCD Display, Optrex DMC50448N	HMS- DISPLAY
4	C2,C3,C5,C6	.1uF	CER. CAP.	A5-268
1	R1	10	RES	C1-124
1	R3	100	RES	C1-148
1	C4	10uF	TANT CAP 35V	A4-127
9	C7,C1,C9,C11, C13,C15,C17, C19,C21	150P	CER CAP	A5-152
1	R7	20K	POT	C3-113
2	R5,R6	22K	RES	C1-204
1	R2	330	RES	C1-160
1	U2	TLC2543CN	IC	B7-170
1	U1	MC1404	IC	B6-112
1	U3	M68HC705-2JP	IC	B7-165
8	C8,C10,C12, C14,C16,C18, C20,C22	1uF	TANT CAP PANASONIC ECS-F1CE 110 5K	A4-140
1	U4	MC34064	IC	B6-111
1	Y1		RESONATOR	B6-125
1	Q1	2N2907	PNP TRANSISTOR	B2-149
1	J2	HEADER 3		F1-160
1	R4	2M, 1/4W	RES	C1-250
1	JP1	HEADER 2	MOLEX 22-03-2021	F1-160A
1	J3	HEADER 7X2	MOLEX 15-44-3214	F2-178
1	J1	HEADER	HEADER RIBBON TYPE 3M 2514-6002-UB	F2-224
3	RP1,RP2,RP3	RESISTOR ARRAY	PANASONIC EX8F6V223G 8 PIN SIP	C4-104

5	C18,C15,C16, C17,C2	.22uF	CAP	A5-270A
1	R2	0	JUMPER	BUSS WIRE
8	R46,R49,R59,R 60,R62,R64, R68,R71	1.0K	RES	C1-172
2	R44,R47	1.0M	RES	C1-244
2	R14,R27	1.2K	RES	C1-174
2	R9,R7	1.6K	RES	C1-177
5	R20,R18,R34, R41,R78	100	RES	C1-148
2	R55,R56	100K	RES	C1-220
9	R26,R32,R58, R63,R65,R28, R36,R66,R74	10K	RES	C1-196
1	VR1	10TP20K	10 T POT	C3-106
14	D1,D3,D4,D5, D6,D7,D9,D10, D11,D12,D13, D14,D15,D16	1N4148	DIODE	B3-110
1	D2	1N751A	ZENER DIODE	B3-119
5	R21,R22,R33,R 43,R52,	20K	RES	C1-203
1	R35	220	RES	C1-156
3	Q4,Q5,Q10	2N4401	TRANS	B2-100A
2	Q8,Q9	2N4403	TRANS	B2-149A
1	R54	3.9K	RES	C1-186
2	R31,R38	330	RES	C1-160
1	C4	33uF	ELECT. CAP	A4-113A
3	R48,R45,R50	4.7K	RES	C1-188
1	R53	47K	RES	C1-212
4	R23,R73,R80, R81	49.9K	RES 1%	C1-213A
2	R67,R51	5.6K	RES	C1-190

Cable Assemblies (101950)

Qty	Reference	Description	TPL PN
1	W1	Cable	101950-1
1	W2	Cable	101950-2
1	W3	Cable	101950-3
1	W4	Cable	101950-4
1	W5	Cable	101950-5
1	W6	Cable	101950-6
1	W7	Cable	101950-7
1	W8	Cable	101950-8

HMS 100W Module
T-101606-F-SA

DESCRIPTION	PART NUMBER	Qty
PCB TEFLON 100 WATT UHF	T-101606	1
7PF METAL CLAD MICA MINI CAP	A1-100A	1
ATC CHIP CAP 10 PF	A2-128A	1
100PF CHIP CAP	A2-148	4
24PF CHIP CAP .120L, .100W	A2-133A	1
1000PF CHIP CAP	A2-172	2
100PF CHIP CAP ATC	A2-191	4
33 UFD 35V RADIAL ELEC. CAP	A4-113A	2
0.1 UFD 50V CERAMIC DISC CAP	A5-268	2
EP10 TRIMMER CAP 0.8 TO 10pF	A5-708	1
VAR CAP MINI 3-18pF CERAMIC	A5-810	1
MRF393 UHF TRANSISTOR	B2-193	1
FERRITE BEAD	E1-100	2
0.15 UH CHOKE	E1-112	2
EMI FILTER BOLT IN STYLE 1000pF	E3-102	2
COPPER HEAT SINK SPREADER PA6	U-101823	1
HEAT DISSIPATOR	U-101830	2

HMS Directional Coupler
T-101050-SA

DESCRIPTION	PART NUMBER	Qty
PCB HMS COUPLER	T-101050A	1
PCB	T-101050B	1
120PF CERAMIC DISC CAP	A5-150	2
1N 5711 DIODE	B3-118	2
50 OHM CHIP RESISTOR 2%	C2-111	2
FERRITE BEAD	E1-100	4

RF Detector HMS
T-101332-SA

DESCRIPTION	PART NUMBER	Qty
PCB	T-100428	1
700PF METAL CLAD MICA CAP	A1-113	1
1 PF DIPPED MICA CAP	A8-100	1
1N5711 DIODE	B3-118	1
47 OHM RES. 1/2W	C1-340	1

Input Output Splitter
T-101832-C-SA

DESCRIPTION	PART NUMBER	Qty
UHF 4 WAY SPLITTER	T101832	2
100 OHM 150W FLANGE RESISTOR	C2-110	2
100 OHM 20W FLANGE RESISTOR	C2-116A	4

Model PA6-2BF-HMS

This section contains parts lists for the Model PA6-2BF-HMS power amplifier. It has the top assembly listing followed by listings of the various subassemblies, down to the piece part level. If a subassembly has been previously listed under another model it is not repeated under this model listing.

PA6-2BF-HMS

10W/300W UHF HMS Top Assembly

Reference No.	Part Description	Manufacturer part number	Qty
	PA6 HMS Amp Sub Assy	PA6-HMS-AMP-1-SA	1
	Mech for HMS Series	MECH-1-HMS-SA	1
	Control Board	T-101298-H-SA	1
	Panel Meter Board	101921-SA	1
	Interconnect Board	101943-SA	1
	LED Board	101947-SA	1
	Cable Assembly	101950-SA	1
	Air Duct Assembly	V14-101904-1-SA	1
	Power Supply 28V 1000W	PS28-20	1

PA6-2GF-HMS**35W/300W UHF HMS Top Assembly**

Reference No.	Part Description	Manufacturer part number	Qty
	PA6 HMS Amp Sub Assy	PA6-HMS-AMP-2-SA	1
	Mech for HMS Series	MECH-1-HMS-SA	1
	Control Board	T-101298-H-SA	1
	Panel Meter Board	101921-SA	1
	Interconnect Board	101943-SA	1
	LED Board	101947-SA	1
	Cable Assembly	101950-SA	1
	Air Duct Assembly	V14-101904-1-SA	1
	Power Supply 28V 1000W	PS28-20	1

WARRANTY

TPL COMMUNICATIONS has tested and found this unit to function properly and to operate within the parameters of its stated specifications.

TPL COMMUNICATIONS warrants that this product is free from defects in material and workmanship. If found to be defective within two (2) years from the date of purchase, the factory at its discretion, will either repair or replace the unit at no cost provided the unit is delivered by the owner to the factory intact. Warranty does not apply to any product which has been subjected to misuse, neglect, accident, improper installation or used in violation of instructions furnished by us, nor does it extend to units which have been repaired or altered outside our service department, nor where the serial number has been removed, defaced or changed.

SERVICE

For service on this amplifier, contact:

TPL COMMUNICATIONS
Customer Service Department
213 256-3000
800 HI POWER
FAX 213 254-3210

APPENDIX I

FRONT PANEL METER READINGS

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