

BMTMBSR100MW

PARTS LISTS AND TUNE-UP PROCEEDURE

There is no user tuning or adjustment of the system, and all manufacturing adjustments are component value changes which are completed at the factory prior to final assembly and shipment. Component values which are factory selected during the manufacturing test process are designated SAT (Select at Test).

Parts List P/N 701007 Pre-Amplifier Module

Designator	Part Number	Description/Value	Qty. per Assembly	Vendor
R2,4,9	281000	0 Ohm 0805	2	Various
R7,17	281103	10K Ohm 0805 1%	2	Various
R10,16	281110	11 Ohm 0805 1%	2	Various
R19,99	281152	1.5K 0805 1%	2	Various
R8,12,14,18	281182	1.82K 0805 1%	4	Various
R11,15	281332	3.3K 0805 1%	2	Various
R6,13	281510	51 Ohm 0805 1%	2	Various
R20, R21	281112	270 Ohm 0805 1%		
C6,7,8,10,14	313104	.1uF X7R 1210	5	Various
C11	342225	22uF 35V Alum Electrolytic	1	Various
C9,13,24	343106	10uF 16V Tant	3	Various
C42	343207	1.5 pf 1210	1	Various
TP1	365024	RF Test Jack	1	Various
C3,31	382100	10PF NPO 0805	2	Various
C1,2,4,5,17,19,10,22,23,25,26,27,29,30,36,43	383102	1000PF NPO 0805	16	Various
L1, L2, L3	414271	270nH 1210	3	Various
CR1	510006	Transorb - Lightning Protection	1	Various
U2	530003	12V Regulator 78M12ACD	1	Various
U3	530004	5 V Regulator 78M05ACD	1	Various
U1	530007	LM317CDT	1	Various
Q1,4	550001	ATF55143	2	Various
U4	550002	SGA6589	1	Various
C39,40	3830R5	0.5PF NPO 0805 Capacitor	2	Various
C15	3831R0	1PF NPO 0805	1	Various
C21,32	3831R5	1.5PF NPO 0805	2	Various
C18	3834R7	4.7PF NPO 0805	1	Various
Q2,3	MMBT3906LT1	MMBT3906	2	Various
D1,2,3	SS24	SS24/2 Diode	3	Various
R5		1 Ohm 1/2 Watt Resistor	1	Various

IDF1,2	6PEBSIDF	6 Pole EBS band IDF Filter	2	Various
C16,33,34,35,38		Not Installed - SAT	0	Various
L2,3,4		Not Installed - SAT	0	Various
R1,3		Not Installed - SAT	0	Various

Parts List P/N 50800002A 100 milli-Watt Post Amplifier Module

Designator	Part Number	Value	Qty. per Assembly	Vendor
C1,C3,C4,C6,C8, C10,C12,C13,C15,C16, C17,C18,C19,C21,C22, C23,C24,C26,C27,C28, C29,C31,C33,C35,C36, C37,C39,C40,C42,C43, C51,C53,C58,C59,C60	WA 383100	10pF (0805)	35	Various
C2,C5,C7,C9,C11,C14, C20,C25,C30,C32,C34, C38,C41,C45,C52,C54	WA 383103	.01uF (0805)	16	Various
C44	GRM42- 6C0G104M50V	.1uF (1206)	1	Various
C46	GRM42- 6Y5v154K50V	.15uF (1206)	1	Various
C48,C55,C56	293D107X9020E	100uF 20V	3	Various
C49,C50,C57	12065C105MAT_T	1uF (1206)	3	AVX
CP1,CP2	1X603	3dB Coupler	2	ANAREN
CR1,CR2,CR3	HSMP4810		3	AVAGO
CR4,CR5	HSMS2810		2	AVAGO
CR6,CR7,CR8	15MQ040NPBF		3	Int. Rectifier
FB1,FB2	WA		2	Various
L1,L2,L3,L4,L5, L6,L7	0805CS-180XJLB	18nH (0805)	7	Coilcraft
L8	1008CS-150XJLB	15nH (1008)	1	Coilcraft
Q1,Q2	FLU10ZM		2	Eudyna
Q3	MMBT3904		1	Various
R1	RM73B2ET120J	12 Ohm (1210)	1	Various
R2,R3	RM73B2ET241J	240 Ohm (1210)	2	Various
R4,R6	WA 222181	180 Ohm (1206)	2	Various
R5	RM73B2ET271J	270 Ohm (1210)	1	Various
R7,R8	RM73B2ET240J	24 Ohm (1210)	2	Various
R9,R14,R15	WA 282510	51 Ohm (0805)	3	Various
R10,R11	WA 282100	10 Ohm (0805)	2	Various
R12,R13	RM73B2ET8R2J	8.2 Ohm (1210)	2	Various
R16	WA 282680	68 Ohm (0805)	1	Various
R17	WA 282472	4.7K (0805)	1	Various
R18	WA 222273	27K (1206)	1	Various
R19	WA 282103	10K (0805)	1	Various
R20	WA 282273	27K (0805)	1	Various

R21	WA 282474	470K (0805)	1	Various
R22,R25	WA 282102	1K (0805)	2	Various
R23,R26,R27	3214W-1-102	1K Pot	3	Bourns
R24,R28	RK73B2ATTD303J	30K (0805)	2	Various
U1	AM1	MMIC AMP	1	Watkins Johnson
U2	AH102	MMIC AMP	1	Watkins Johnson
U3	MAX1719EUT	Voltage Converter	1	Maxim
U4	MC78L05	5V Regulator	1	Various
U5	AD823AR	OP-AMP	1	Analog Devices
U6	PT6101C	Voltage Regulator	1	Texas Instruments
U7	LM317AEMP	Voltage Regulator	1	Various