

NICOM

Rif.	Value	Remarks	Description	Code
R116	100	1/4W	SMD Thick Film Resistor	
R117	10K	1/4W	SMD Thick Film Resistor	
R118	10K	1/4W	SMD Thick Film Resistor	
R119	10K	1/4W	SMD Thick Film Resistor	
R120	22	1/4W	SMD Thick Film Resistor	
R121	47	1/4W	SMD Thick Film Resistor	
R122	22	1/4W	SMD Thick Film Resistor	
R123	47	1/4W	SMD Thick Film Resistor	
R124	82	1/4W	SMD Thick Film Resistor	
R125	82	1/4W	SMD Thick Film Resistor	
R126	680	1/4W	SMD Thick Film Resistor	
R127	680	1/4W	SMD Thick Film Resistor	
R128	330	1/4W	SMD Thick Film Resistor	
R129	10	1/4W	SMD Thick Film Resistor	
R130	470	1/4W	SMD Thick Film Resistor	
R131	6K8	1/4W	SMD Thick Film Resistor	
R132	47K	1/4W	SMD Thick Film Resistor	
R133	470K	1/4W	SMD Thick Film Resistor	
R134	180	1/4W	SMD Thick Film Resistor	
R135	56K	1/4W	SMD Thick Film Resistor	
R136	10K	1/4W	SMD Thick Film Resistor	
R137	100	1/4W	SMD Thick Film Resistor	
R138	18K	1/4W	SMD Thick Film Resistor	
R139	330	1/4W	SMD Thick Film Resistor	
R140	4K7	1/4W	SMD Thick Film Resistor	
R141	2K7	1/4W	SMD Thick Film Resistor	
R142	100	1/4W	SMD Thick Film Resistor	
R143	560	1/4W	SMD Thick Film Resistor	
R144	180	1/4W	SMD Thick Film Resistor	
R145	120K	1/4W	SMD Thick Film Resistor	
R146	3K9	1/4W	SMD Thick Film Resistor	
R147	3K9	1/4W	SMD Thick Film Resistor	
R148	10	1/4W	SMD Thick Film Resistor	
R149	100	1/4W	SMD Thick Film Resistor	
R150	47K	1/4W	SMD Thick Film Resistor	
R151	47K	1/4W	SMD Thick Film Resistor	
R152	47K	1/4W	SMD Thick Film Resistor	
R153	47K	1/4W	SMD Thick Film Resistor	
R154	47K	1/4W	SMD Thick Film Resistor	
R155	470	1/4W	SMD Thick Film Resistor	
R156	47K	1/4W	SMD Thick Film Resistor	
R157	470	1/4W	SMD Thick Film Resistor	
R158	100K	1/4W	SMD Thick Film Resistor	
R159	560	1/4W	SMD Thick Film Resistor	
R160	220K	1/4W	SMD Thick Film Resistor	
R161	1K	1/4W	SMD Thick Film Resistor	
R162	27K	1/4W	SMD Thick Film Resistor	
R163	10	1/4W	SMD Thick Film Resistor	
R164	10	1/4W	SMD Thick Film Resistor	
R165	10K	1/4W	SMD Cermet Skeleton Trimmer Resistor	
R166	3K9	1/4W	SMD Thick Film Resistor	
R167	470	1/4W	SMD Thick Film Resistor	

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Rif.	Value	Remarks	Description	Code
R168	390	1/4W	SMD Thick Film Resistor	
R169	12	1/4W	SMD Thick Film Resistor	
R170	330	1/4W	SMD Thick Film Resistor	
R171	330	1/4W	SMD Thick Film Resistor	
R172	10	1/4W	SMD Thick Film Resistor	
R173	39	1/4W	SMD Thick Film Resistor	
R174	10	1/4W	SMD Thick Film Resistor	
R175	470	1/4W	SMD Thick Film Resistor	
R176	12	1/4W	SMD Thick Film Resistor	
R177	12K	1/4W	SMD Thick Film Resistor	
R178	56	1/4W	SMD Thick Film Resistor	
R179	20K	1/4W	SMD Cermet Skeleton Trimmer Resistor	
R180	2K	1/4W	Multi Turn Cermet Trimmer Resistor	
R181	4K7	1/4W	SMD Thick Film Resistor	
R182	470K	1/4W	SMD Thick Film Resistor	
R183	560	1/4W	SMD Thick Film Resistor	
R184	10K	1/4W	SMD Thick Film Resistor	
R185	47K	1/4W	SMD Thick Film Resistor	
R186	4K7	1/4W	SMD Thick Film Resistor	
R187	2K	1/4W	SMD Cermet Skeleton Trimmer Resistor	
R188	47K	1/4W	SMD Thick Film Resistor	
R189	10K	1/4W	SMD Thick Film Resistor	
R190	2K2	1/4W	SMD Thick Film Resistor	
R191	1K	1/4W	SMD Thick Film Resistor	
R192	1K5	1/4W	SMD Thick Film Resistor	
R193	2K2	1/4W	SMD Thick Film Resistor	
R194	2K2	1/4W	SMD Thick Film Resistor	
R195	15K	1/4W	SMD Thick Film Resistor	
R196	560	1/4W	SMD Thick Film Resistor	
R197	470K	1/4W	SMD Thick Film Resistor	
R198	2K2	1/4W	SMD Thick Film Resistor	
R199	15K	1/4W	SMD Thick Film Resistor	
R200	47K	1/4W	SMD Thick Film Resistor	
R201	4K7	1/4W	SMD Thick Film Resistor	
R202	4K7	1/4W	SMD Thick Film Resistor	
R203	4K7	1/4W	SMD Thick Film Resistor	
R204	27K	1/4W	SMD Thick Film Resistor	
R205	47K	1/4W	SMD Thick Film Resistor	
D1	LL4148		SMD Low Power Signal Diode	
D2	LL4148		SMD Low Power Signal Diode	
D3	BAT43		Diode Schottky	
D4	BAT43		Diode Schottky	
D5	LL4148		SMD Low Power Signal Diode	
D6	3V3		SMD Diode Zener	
D7	LL4148		SMD Low Power Signal Diode	
D8	LL4148		SMD Low Power Signal Diode	
D9	LL4148		SMD Low Power Signal Diode	
D10	LED	YELLOW	SMD Light Emitting Diode	
D11	LED	YELLOW	SMD Light Emitting Diode	
D12	MRA4007		Medium Power Signal Diode	
D13	MRA4007		Medium Power Signal Diode	

NICOM

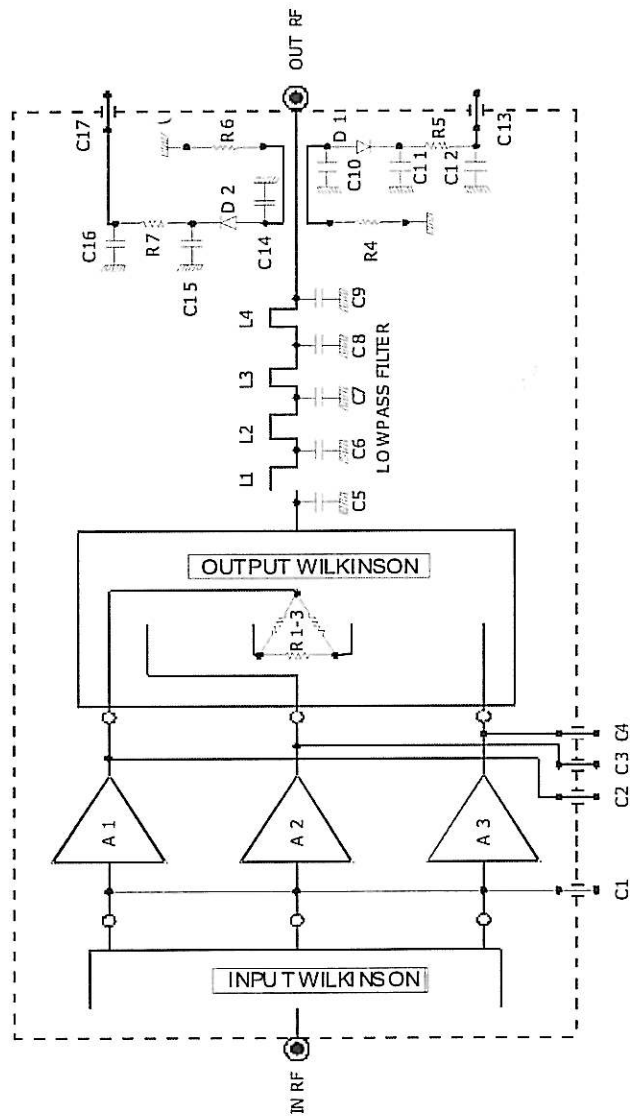
Rif.	Value	Remarks	Description	Code
D14	LED	YELLOW	SMD Light Emitting Diode	
D15	LED	YELLOW	SMD Light Emitting Diode	
D16	15V		SMD Diode Zener	
D17	LL4148		SMD Low Power Signal Diode	
D18	LL4148		SMD Low Power Signal Diode	
D19	15V		SMD Diode Zener	
D20	MV209		Tuning Diode	
D21	MV209		Tuning Diode	
D22	MV209		Tuning Diode	
D23	MV209		Tuning Diode	
D24	MV209		Tuning Diode	
D25	MV209		Tuning Diode	
D26	MV209		Tuning Diode	
D27	MV209		Tuning Diode	
D28	LL4148		SMD Low Power Signal Diode	
D29	LED	GREEN	SMD Light Emitting Diode	
D30	LL4148		SMD Low Power Signal Diode	
D31	5V1		SMD Diode Zener	
D32	LL4148		SMD Low Power Signal Diode	
D33	MRA4007		Medium Power Signal Diode	
D34	MRA4007		Medium Power Signal Diode	
D35	5V1		SMD Diode Zener	
Q1	BC327		Low Power Bipolar Transistor	
Q2	BC327		Low Power Bipolar Transistor	
Q3	BC337		Low Power Bipolar Transistor	
Q4	BC327		Low Power Bipolar Transistor	
Q5	BC337		Low Power Bipolar Transistor	
Q6	BDX53		Medium Power Bipolar Transistor	
Q7	BC337		Low Power Bipolar Transistor	
Q8	J310		JFET	
Q9	J310		JFET	
Q10	BC327		Low Power Bipolar Transistor	
Q11	BC327		Low Power Bipolar Transistor	
Q12	PD55003		LDMOS	
Q13	BFR96		RF Bipolar Transistor	
Q14	TIP41C		Medium Power Bipolar Transistor	
Q15	TIP42C		Medium Power Bipolar Transistor	
Q16	BC327		Low Power Bipolar Transistor	
U1	OP275		Operational Amplifier	
U2	LM358		Operational Amplifier	
U3	LF353		Operational Amplifier	
U4	ADC0834		A/D Converter	
U5	MAX810L		Special Function Integrated Circuit	
U6	T89C51RD2		Microcontroller	
U7	MAX232		Special Function Integrated Circuit	
U8	LM78S15/TO		Fixed Voltage Regulator	
U9	MC78M05CDT		Fixed Voltage Regulator	
U10	LM7915		Fixed Voltage Regulator	
U11	MC79M05CDT		Fixed Voltage Regulator	
U12	LM358		Operational Amplifier	

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Rif.	Value	Remarks	Description	Code
U13	LM358		Operational Amplifier	
U14	LM358		Operational Amplifier	
U15	MC78M08CDT		Fixed Voltage Regulator	
U16	ERA6		Operational Amplifier	
U17	LMX1501		Special Function Integrated Circuit	
U18	LM358		Operational Amplifier	
U19	LM358		Operational Amplifier	
U20	CD40106		Logic Integrated Circuit	
Y1	11.0592MHz		Quartz Crystal	
TCXO1	MHz 12.800		Crystal Oscillator Module	
LCD1	DISPLAY		Male PCB Mounting Header	
SW1	DB9 MONITOR		Microswitcher	
FILT1	FILTER 19KHz		Filter TOKO	
COAX1	RG178		Coaxial Cable	
J1	POWER		PCB Mounting Terminal Block	
J2	SMB		SMB PCB Jack - 50 Ohm	
J3	DJ2x5		Male PCB Mounting Header	
J4	NC			
J5	STEREO		PCB Pin Strip Header	
J6	NC			
J7	DJ3		PCB Pin Strip Header	
J8	NC			
J9	NC			
J10	NC			
J11	NC			
J12	DB9_AUX		PCB Pin Strip Header	
J13	DB9		Male PCB Mounting Header	
J14	DJ3		PCB Pin Strip Header	
J15	DJ3		PCB Pin Strip Header	
J16	DJ2		PCB Pin Strip Header	
J17	DJ2		PCB Pin Strip Header	
J18	TEST Fref.		PCB Pin Strip Header	
J19	PUSH		PCB Pin Strip Header	
J20	RJ45		RJ45 PCB Socket	
J21	S		Jumper for setting	
J22	N		Jumper for setting	
J23	S		Jumper for setting	
J24	N		Jumper for setting	
J25	N		Jumper for setting	
J26	S		Jumper for setting	
J27	N		Jumper for setting	
J28	S		Jumper for setting	
J29	24V		Jumper for setting	
J30	15V		Jumper for setting	
J31	E		Jumper for setting	
J32	A		Jumper for setting	
J33	N		Jumper for setting	
J34	15V		Jumper for setting	
J35	24V		Jumper for setting	

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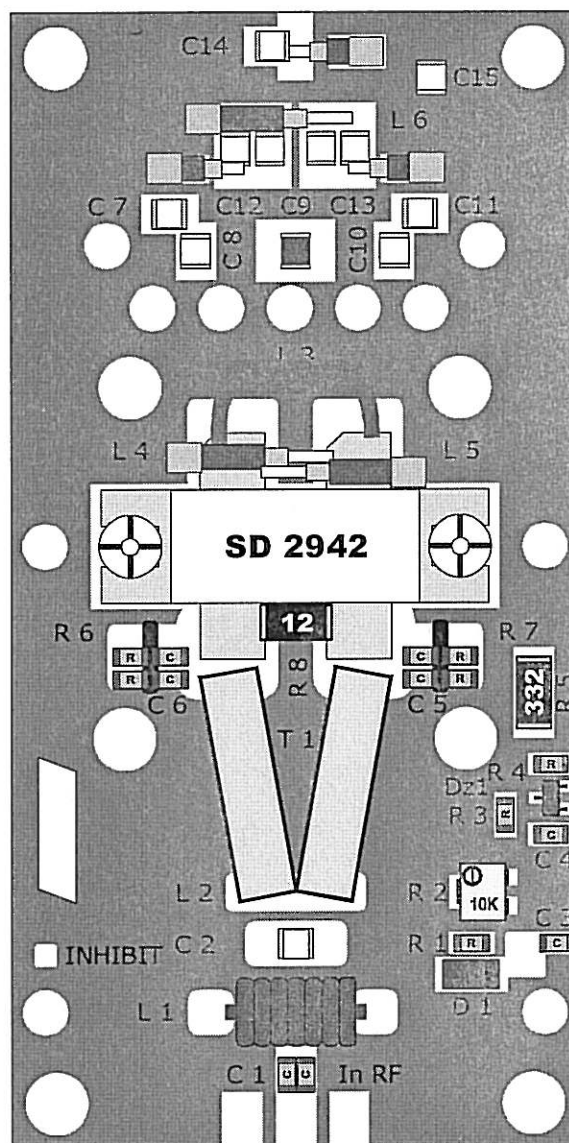
ELECTRIC DIAGRAM



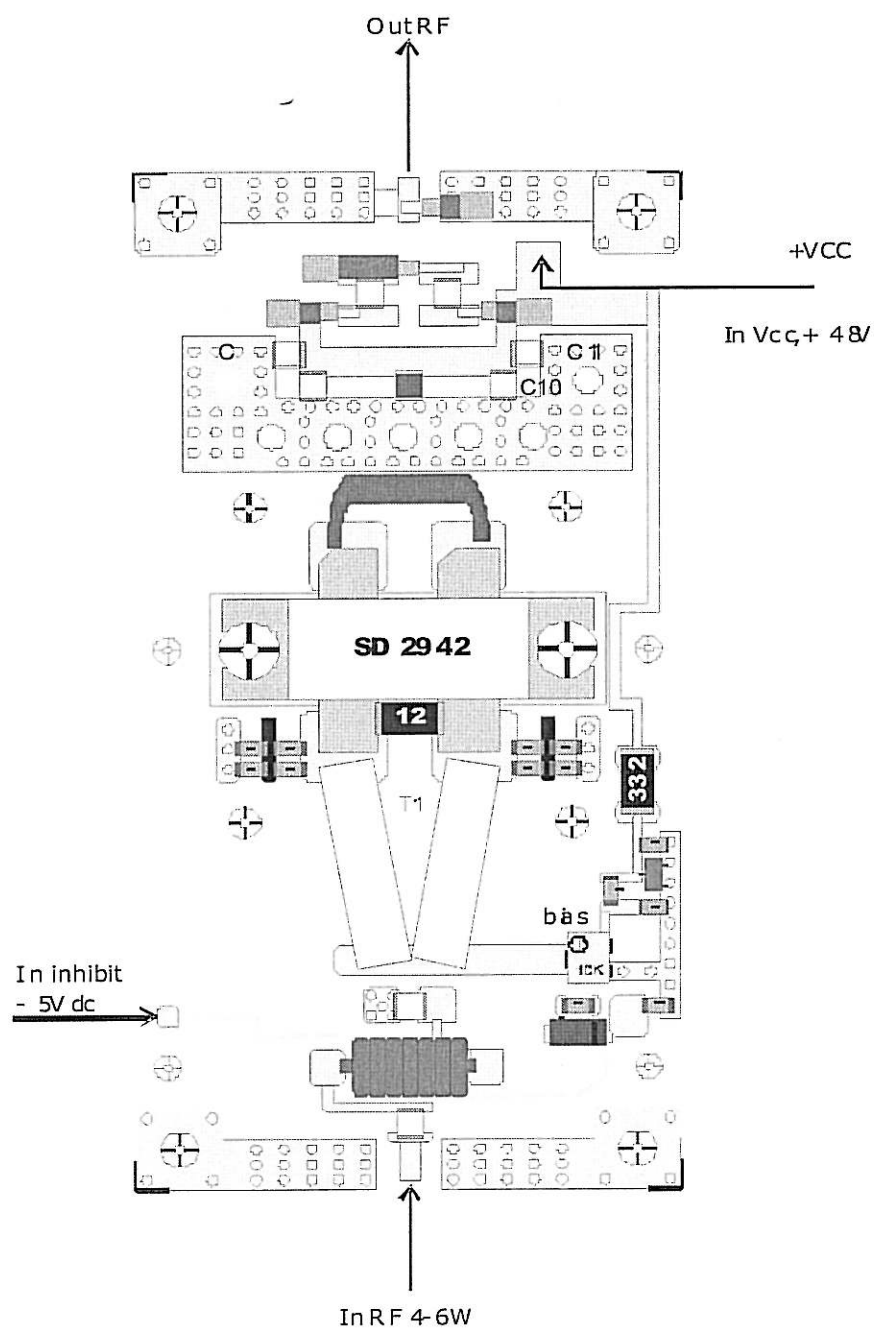
COMPONENT LIST

TITLE	DESCRIPTION	VALUE
R 1	250 W Resistor	50 Ω
R 2	250 W Resistor	50 Ω
R 3	250 W Resistor	50 Ω
R 4	0,25 W SMD Resistor	100 Ω
R 5	0,25 W SMD Resistor	1 K Ω
R 6	0,25 W SMD Resistor	100 Ω
R 7	0,25 W SMD Resistor	1 K Ω
C 1	Capacitor	1500 pF
C 2	Capacitor	1500 pF
C 3	Capacitor	1500 pF
C 4	Capacitor	1500 pF
C 5	Capacitor	33 pF
C 6	Capacitor	66 pF
C 7	Capacitor	66 pF
C 8	Capacitor	66 pF
C 9	Capacitor	33 pF
C10	ATC Ceramic Capacitor	59 pF
C11	Capacitor	1000 pF
C12	Capacitor	1000 pF
C13	Capacitor	1500 pF
C14	ATC Ceramic Capacitor	59 pF
C15	Capacitor	1000 pF
C16	Capacitor	1000 pF
C17	Capacitor	1500 pF
L 1	2 copper coils 3 mm thick on 12 mm diameter	
L 2	4 copper coils 3 mm thick on 12 mm diameter	
L 3	4 copper coils 3 mm thick on 12 mm diameter	
L 4	4 copper coils 3 mm thick on 10 mm diameter	
D1	Fast Diode	BAT 42
D2	Fast Diode	BAT 42
A 1	RF Module	MB 350
A 2	RF Module	MB 350
A 3	RF Module	MB 350

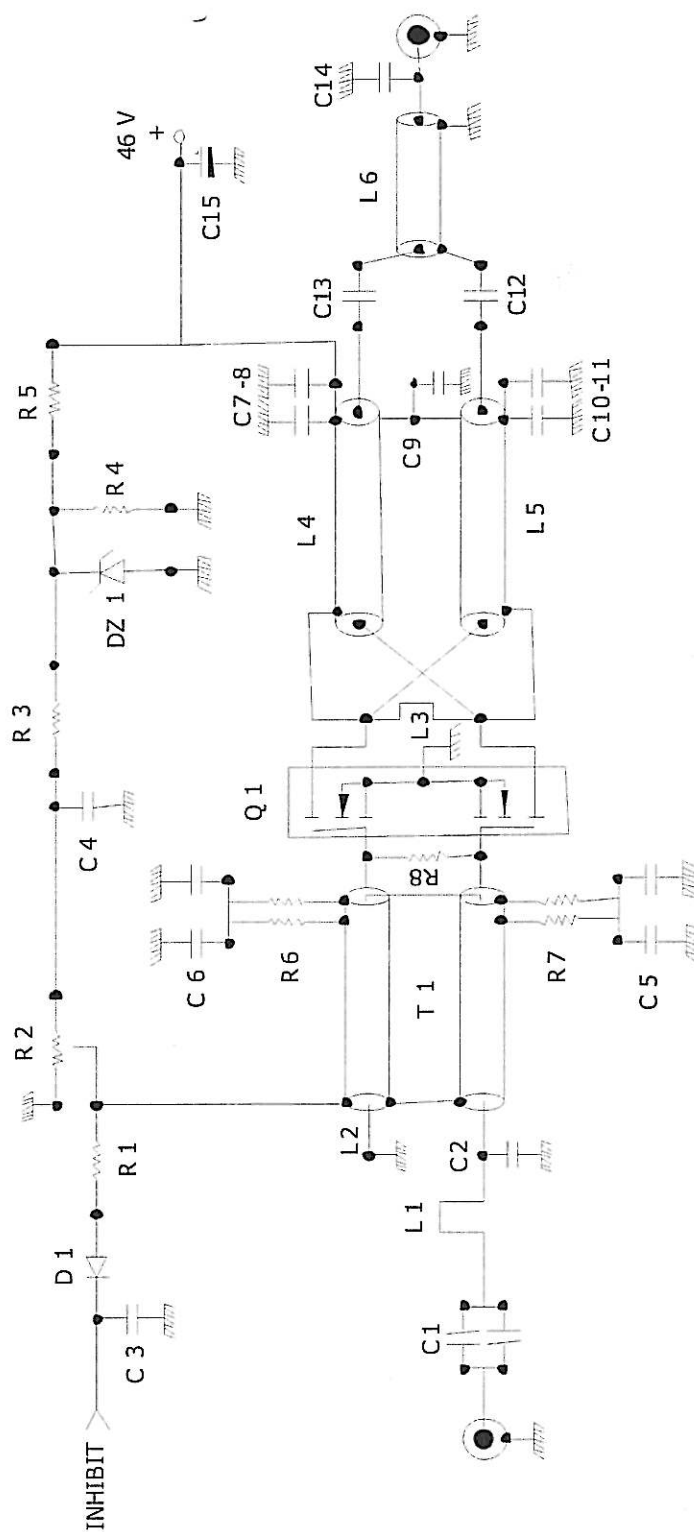
MB-350 LAYOUT



MB-350 CONNECTIONS



MB-350 ELECTRICAL DIAGRAM



MB-350 COMPONENT LIST

TITLE	DESCRIPTION	VALUE	NOTES
R 1	CHIP RESISTOR	150 Ω	
R 2	SMD TRIMMER	10 K Ω	
R 3	CHIP RESISTOR	12 K Ω	
R 4	CHIP RESISTOR	1,5 K Ω	
R 5	CHIP RESISTOR 1W	3,3 K Ω	
R 6	CHIP RESISTOR	47 Ω	
R 7	CHIP RESISTOR	47 Ω	
R 8	CHIP RESISTOR 1W	2 x 12 Ω	
C 1	CHIP CAPACITOR	2 X 1KpF	
C 2	CHIP CAPACITOR ATC	56 pF	
C 3	CHIP CAPACITOR	1KpF	
C 4	CHIP CAPACITOR	1KpF	
C 5	CHIP CAPACITOR	1KpF+,2,2KpF	
C 6	CHIP CAPACITOR	1KpF+,2,2KpF	
C 7	CHIP CAPACITOR ATC 300 V.	1000 pF	
C 8	CHIP CAPACITOR ATC 300 V.	1000 pF	
C 9	CHIP CAPACITOR 1000 V.	10K pF	
C10	CHIP CAPACITOR ATC 300 V.	1000 pF	
C11	CHIP CAPACITOR ATC 300 V.	1000 pF	
C12	CHIP CAPACITOR ATC 300 V.	1000 pF	
C13	CHIP CAPACITOR ATC 300 V.	1000 pF	
C14	Not used		
C15	SMD CAPACITOR 63 V.	3,3 μ F	
D 1	Diodo smd		
DZ 1	ZENER SMD	7,5 Volt	
Q 1	Dispositivo DUAL FET	SD 2942	

MB-350 COMPONENT LAYOUT

