

Component list**APF073A_APF074A - MIZAR**

Part Name Code	Description	Qty	
02035	BNC CONNECTOR FOR RG316 CABLE	1	
02513	90 SMB SOCKET cod. R114186000W	2 (APF073A)	1 (APF074A)
02518	SMB SOCKET FOR RG174 CABLE code R114082000W	1 (APF073A)	2 (APF074A)
02695	DB9 CONNECTOR FOR IU008059 CABLE	1	
02699	FEMALE 10WIRE CONNECTOR	1	
02700	FEMALE 16WIRE CONNECTOR	2	
02833	AC SOCKET WITH FUSE-HOLDER	1 (APF074A)	
02841	3 POLES CANON PLUG	1	
02855	FEMALE 26WIRE CONNECOTR	2	
05069	TOROIDAL FILTER	1 (APF074A)	
05551B	2U HANDLE KIT	2 (APF073A)	
05552B	3U HANDLE KIT	2 (APF074A)	
07522	LIGHTED SWITCH	1 (APF073A)	
07524A	BLACK SWITCH	1 (APF074A)	
07602	BLOWER GRID	1 (APF073A)	2 (APF074A)
07613	PAPST BLOWER	1 (APF073A)	2 (APF074A)
07918	AC FILTER	1 (APF073A)	
07924	PVC PROTECTION	1 (APF074A)	
07925	PVC PROTECTION	1	
07926	PVC PROTECTION	1 (APF073A)	
08502	RG 316 50Ω CABLE	0.70 (APF073A)	0.90 (APF074A)
CON0306	CON0306R0 COVER	1	
CON0340S	CON0340R1S MIZAR30 BOX	1 (APF073A)	
CON0354R2S	CON0354R2 MIZAR300 BOX	1 (APF074A)	
DET1220	DET1220R1 BLOWER CONVEYER	1 (APF073A)	
DET1317R0P	DET1317R0P MECHANICAL DETAIL	1 (APF074A)	
DET1361R0P	DET1361R0 MECHANICAL DETAIL	1 (APF074A)	
E0050	PSP-650-48 DE2 SWITHCING POWER SUPPLY	1 (APF074A)	
E0060	S-100F-24 SWITCHING POWER SUPPLY	1 (APF073A)	
FUS5A	5A FUSE	2 (APF073A)	
FUS10B	10A FUSE	2 (APF074A)	
MFF0025BR0	30W FM AMPLIFIER MODULE	1 (APF073A)	
MFF0031AR0	300W FM AMPLIFIER MODULE	1 (APF074A)	
PAN0141	PAN0141R1 FRONT PANEL	1 (APF073A)	
PAN0153R0P	FRONT PANEL	1 (APF074A)	
SCH0372AR1	DISPLAY BOARD	1	
SCH0377AR2	MOTHER BOARD	1	
V0761	BLACK PLASTIC TAP	1	
V0768	BLACK PLASTIC TAP	1	

SCH0377AR2 COMPONENT LIST

Part Name/Number	Description	Qty.	Comps.	Page 1/2
257BLR-3618N05010	05010 AUDIO TOKO FILTER	2	LP1-2	
CC 100nF-S 01065C	01065C Y5V 1206 CAPACITOR		20	C19, C30, C32, C43, C45-46, C57, C62-63,
				C77, C79, C81-89
CC 10pF-S 01086	01086 SMD 1206 CAPACITOR	1	C26	
CC 1206 N. M.	N. M. SMD 1206 CAPACITOR	1	C58	
CC 1nF-2%-S 01041D	01041D SMD 1206 CAPACITOR	23	C9-10, C22, C25, C34-36, C49-50, C54, C56, C59-61, C64-65, C68-72, C75, C80	
CC 27pF-S 01022B	01022B SMD 1206 CAPACITOR	16	C1-6, C11-14, C28-29, C33, C37, C51-52	
CC 6p8F-S 01084	01084 SMD 1206 CAPACITOR	1	C39	
CE 100uF16V-S 01792A	01792A ELET. SMD CAPACITOR	3	C78, C91-92	
CE 10uF16V-S 01776A	01776A ELET. SMD CAPACITOR	14	C7, C16-18, C20, C41-42, C47-48, C53, C55, C73-74, C76	
CE 220uF16V-S	01824A ELET. SMD CAPACITOR	5	C8, C27, C40, C66-67	
CE 22uF16V-S	01780A ELET. SMD CAPACITOR	6	C21, C23-24, C31, C38, C44	
CE 470uF-S 16V-S	01804B ELET. SMD CAPACITOR	1	C15	
D BAS85-S	03024 SMD DIODE SCHOTTKY	1	D2	
D BAT54S	03199 SMD SCHOT. DIODE A-K T	3	D1, D4-5	
D HSMP3814	03202 SMD DIODE	1	D3	
DL KA-3528SGC 03057	03057 GREEN SMD LED DIODE	1	DL1	
DZ 5V1-S 03128	03128 SMD ZENER DIODE	2	DZ1-2	
IC LM833-S 04643A	04643A SMD INTEG CIRCUIT	3	IC1-3	
IC LMC6482-S	04632 SMD INTEG CIRCUIT	2	IC5, IC8	
IC LMC6484-S	04634 SMD INTEG CIRCUIT	1	IC7	
IC MAR3 04367	04367 SMD INTEG CIRCUIT	1	IC6	
IC MC14066BD-S 4708B	4708B SMD INTEG CIRCUIT	1	IC4	
IND 100nH-S 05093A	05093A INDUCTOR	1	L9	
IND 22uH-S 5023D	5023D INDUCTOR	5	L1-3, L5-6	
IND 2u2H-S 05020A	05020A INDUCTOR	1	L7	
IND CBD8 05072	05072 INDUCTOR	3	L4, L8, L10	
IND MS85 10uH-S	04948 INDUCTOR 2.7A	2	L12-13	
JBNC-90G-PCB SHIELD	02034A PCB SHIELDED CONNEC.	3	J2-4	
JDB9-90G 02797	02797 PCB CONNECTOR	1	J5	
JFC-16P 02701-02700	02701+02700 PCB CONNECTOR	2	J7, J10	
JFC-26P 02855-02854	02855+02854 PCB CONNECTOR	1	J12	
JNC3FD-H 02862	02862 XLR-90G-PCB SOCKET F.	1	J1	
J SMB-PCB 2PIN 02516	02516 PCB CONNECTOR	3	J6, J8-9	
JU JUMP2 02739-02742	02739+02742 MASCHIO PAN2	4	JP1-4	
OSC NVT535 05168	05168 TCXO	1	OSC1	
PN0658A SCH0007AR0	SCH0007AR0 VCO FM INTEG.	1	VCO1	
R 0R0-S 00001	00001 RES 1/4W 5% SMD 1206	1	R98	
R 100K-1%-S 00065B	00065B RES 1/4W 1% SMD 1206	12	R33-34, R37, R41, R48, R50, R55, R57, R62, R88, R91, R96	

Part Name/Number	Description	Qty.	Comps.	Page 2/2
R 100R-S 00029A	00029A RES 1/4W 5% SMD 1206	12	R5-7, R10, R38, R71, R76, R82, R86-87, R92, R97	
R 10K-S 00053A	00053A RES 1/4W 5% SMD 1206	17	R8-9, R11, R22, R29-30, R40, R45-46, R52, R53, R60, R66, R73, R100-101, R107	
R 10R-S 00017A	00017A RES 1/4W 5% SMD 1206	2	R64, R69	
R 15K-1%-S 00055B	00055B RES 1/4W 1% SMD 1206	3	R35, R85, R94	
R 1K2-1%-S 00042A	00042A RES 1/4W 1% SMD 1206	5	R19-20, R44, R67, R79	
R 1K5-S 00043A	00043A RES 1/4W 5% SMD 1206	1	R68	
R 22K-S 00057A	00057A RES 1/4W 5% SMD 1206	4	R17, R43, R89-90	
R 2K2-S 00045A	00045A RES 1/4W 5% SMD 1206	2	R61, R70	
R 330R-1%-S 00035A	00035A RES 1/4W 1% SMD 1206	1	R75	
R 47K-1%-S 00061B	00061B RES 1/4W 1% SMD 1206	18	R18, R26-28, R32, R42, R49, R51, R54, R56, R58-59, R63, R65, R93, R95, R102, R108	
R 4K7-S 00049A	00049A RES 1/4W 5% SMD 1206	6	R15, R23-25, R36, R39	
R 560K-S	00074B RES 1/4W 5% SMD 1206	1	R31	
R 560R-1%-S 00038B	00038B RES 1/4W 1% SMD 1206	1	R74	
R 68K-1%-S 00063B	00063B RES 1/4W 1% SMD 1206	5	R12-14, R16, R47	
R 68R-S 00027A	00027A RES 1/4W 5% SMD 1206	2	R77-78	
R 82R-S 00028A	00028A RES 1/4W 5% SMD 1206	1	R72	
RV 10K-M-H 00777	00777 VARIABLE RESISTOR	4	R1-4	
RV 10K-S-H/S 00793	00793 SMD VARIABLE RESISTOR	2	R80-81	
RV 1K-S-H/S 00792	00792 SMD VARIABLE RESISTOR	1	R21	
RV 50K-S-H/S 00797	00797 SMD VARIABLE RESISTOR	2	R83-84	
TR BC807 03453	03453 PNP SMD TRANSISTOR	1	TR6	
TR BC848 03457	03457 NPN SMD TRANSISTOR	7	TR1-2, TR4-5, TR8-9, TR12	
TR BC856 03455	03455 PNP SMD TRANSISTOR	1	TR3	
TR BFG35 03990	03990 NPN SMD TRANSISTOR	1	TR7	

SCH0378AR2 COMPONENT LIST

Part Name/Number	Description	Qty.	Comps.
257BLR-3618N05010	05010 AUDIO TOKO FILTER	2	LP1-2
CC 100nF-S 01065C	01065C Y5V 1206 CAPACITOR	6	C14, C22, C24, C30, C33, C37
CC 1nF-2%-S 01041D	01041D SMD 1206 CAPACITOR	5	C13, C16-18, C23
CC 27pF-S 01022B	01022B SMD 1206 CAPACITOR	9	C4, C6-8, C10-11, C15, C20, C32
CE 10uF16V-S 01776A	01776A ELET. SMD CAPACITOR	7	C2-3, C5, C9, C19, C34-35
CE 22uF16V-S	01780A ELET. SMD CAPACITOR	6	C12, C21, C25-27, C31
CE 470uF-S 16V-S	01804B ELET. SMD CAPACITOR	5	C1, C29, C38-40
CV 4.5-20pF-S 01481	01481 VARIABLE CAPACITOR	1	C28
CV 7-50pF-S 01474	01474 VARIABLE CAPACITOR	1	C36
D BAT54S	03199 SMD SCHOT. DIODE A-K T	1	D1
IC LM833-S 04643A	04643A SMD INTEG CIRCUIT	2	IC1-2
IC LMC6482-S	04632 SMD INTEG CIRCUIT	1	IC4
IC MC14066BD-S 4708B	4708B SMD INTEG CIRCUIT	1	IC3
IND 22uH-S 5023D	5023D INDUCTOR	2	L1-2
JBNC-90G-PCB SHIELD	02034A PCB SHIELDED CONNEC.	1	J1
JFC-16P 02701-02700	02701+02700 PCB CONNECTOR	1	J4
JNC3FD-H 02862	02862 XLR-90G-PCB SOCKET F.	1	J2
J SMB-PCB N. M.	SMB PCB N. M.	1	J3
JU JUMP2 02739-02742	02739+02742 PAN2 MALE	3	JP1-3
MPX CTC30-01	04894 STEREO ENCODER	1	MPX1
R 100K-1%-S 00065B	00065B RES 1/4W 1% SMD 1206	7	R3-4, R14-15, R20, R23, R31
R 10K-S 00053A	00053A RES 1/4W 5% SMD 1206	7	R2, R5-8, R29-30
R 15K-1%-S 00055B	00055B RES 1/4W 1% SMD 1206	1	R17
R 18K-S 00056B	00056B RES 1/4W 5% SMD 1206	1	R33
R 1K2-1%-S 00042A	00042A RES 1/4W 1% SMD 1206	3	R9-10, R13
R 47K-1%-S 00061B	00061B RES 1/4W 1% SMD 1206	4	R12, R21-22, R32
R 47R-S 00025A	00025A RES 1/4W 5% SMD 1206	1	R28
R 4K7-S 00049A	00049A RES 1/4W 5% SMD 1206	4	R16, R18-19, R24
R 560K-S	00074B RES 1/4W 5% SMD 1206	1	R11
RV 10K-M-H 00777	00777 VARIABLE RESISTOR	1	R1
RV 10K-S-H/S 00793	00793 SMD VARIABLE RESISTOR	1	R27
RV 50K-S-H/S 00797	00797 SMD VARIABLE RESISTOR	2	R25-26
TRBCV47	03465 NPN SMD TRANSISTOR	1	TR1

SCH0372AR1 COMPONENT LIST

Part Name/Number	Description	Qty.	Comps.
CC 100nF-S 01065C	01065C Y5V 1206 CAPACITOR	20	C3-5, C7, C12, C14, C16-17, C24-28, C30, C31-35, C37
CC 15pF-S 01088	01088 SMD 1206 CAPACITOR	2	C1-2
CC 1uF100V-S 01760A	01760A Y5V 1206 50V CAPAC.	7	C8, C11, C13, C15, C18-20
CC 220nF-S 1069A	1069A Y5V 1206 CAPACITOR	6	C6, C9-10, C21-23
CE 10uF16V-S 01776A	01776A ELET. SMD CAPACITOR	2	C29, C36
D 1N4148-S 03002	03002 SMD DIODE	2	D1-2
DIS MDLS16268CLVBLDW	03072C DISPLAY 2 X 16 WIDE	1	LCD1
DL LEDG5 03060	03060 GREEN LED DIODE 5mm	1	DL3
DL LEDR5 03061	03061 RED LED DIODE 5mm	1	DL1
DL LEDY5 03054B	03054B YELL. LED DIODE 5mm	1	DL2
IC 74HC00-S 4762A	4762A SMD INTEG CIRCUIT	1	IC3
IC LMC6482-S	04632 SMD INTEG CIRCUIT	1	IC5
IC LMC6484-S	04634 SMD INTEG CIRCUIT	2	IC8-9
IC MAX232-S 04804B	04804B SMD INTEG CIRCUIT	1	IC7
IC MAX3080-S 04770	04770 SMD INTEG CIRCUIT	1	IC4
IC MC14094BD 04718	04718 SMD INTEG CIRCUIT	1	IC1
IC MC74HC589 4874	04874 SMD INTEG CIRCUIT	1	IC2
IC PIC18F452-S	04807C + 07509C INTEG CIRCUIT	1	IC6
IND CBD8 05072	05072 INDUCTOR	1	L1
JFC-10P 02697-02699	02697+02699 PCB CONNEC. POL	2	J1-2
JFC-26P 02855-02854	02855+02854 PCB CONNEC. POL	1	J5
J PAN6 02713-14-15	02713+02714+02715 PCB CONN.	2	J3-4
JU JUMP3 02707-02742	02707+02742 MASCHIO PAN3	1	JP1
R 100R-S 00029A	00029A RES 1/4W 5% SMD 1206	2	R6-7
R 10K-S 00053A	00053A RES 1/4W 5% SMD 1206	4	R9, R16-17, R20
R 120R-S 00030A	00030A RES 1/4W 5% SMD 1206	1	R3
R 12R-S 00018A	00018A RES 1/4W 5% SMD 1206	1	R18
R 1K0-S 00041A	00041A RES 1/4W 5% SMD 1206	1	R19
R 470R-S 00037A	00037A RES 1/4W 5% SMD 1206	1	R8
R 47K-S 00061A	00061A RES 1/4W 5% SMD 1206	5	R2, R4-5, R11-12
R 820R-S 00040A	00040A RES 1/4W 5% SMD 1206	3	R13-15
RV 10K-3266X 00807	00807 VARIABLE RESISTOR	1	R1
RV 5K-M-V 00783	00783 VARIABLE RESISTOR	1	R10
TCLOCHE GREY WITH BLUE CENTER	4 x xxxxxxx + 4 x xxxxxxx + xxxxx	1	T1
TR BC817 03454	03454 NPN SMD TRANSISTOR	1	TR1
XTAL 20MHz-S	CXS00001 QUARTZ	1	XTAL1

DESCRIPTION

The MFF0025B amplifier module is designed to amplify the FM modulated carriers in the 87-108MHz band, and can provide an output of 30W CW. In order to obtain the desired gain, the amplifier is made up by two gain stages: the pilot stage uses a BLF242 MOSFET, while the final stage uses a BLF245 MOSFET.

An input adaptation circuit allows the adaptation of the module to the various driving levels. The output power regulation is made by controlling the power level of the input signal of the module. The final stage of the module also has a control terminal allowing to disable the MOSFET immediately, if needed. The output of the module is completed by a 9th order (4 cell) low-pass filter to attenuate the level of the harmonics of the signal, and by two high-directivity directional couplers needed to sample part of the Forward and Reflected Power in order to measure their levels. The final is provided with the needed circuits (SCH0371B Interface Board) to read the output Forward and Reflected Power, the heatsink temperature and the voltage supplied.

TECHNICAL CHARACTERISTICS

Frequency Range	87 - 108MHz
Output Power	30W
Input Return Loss	>25dB
Power Supply	+27V
RF Input Impedance	50Ω
RF Output Impedance	50Ω
Bias Current	BLF242 with Vdd = +27V: 220mA
Bias Current	BLF245 with Vdd = +27V: 220mA
Gain	20dB
Efficiency	54%

MFF0025BR0 COMPONENT LIST

Part Name/Number	Description	Qty.
SCH0382BR0	30W FM AMPLIFIER BOARD	1
01400	BYPASSING CAPACITOR	1
01408	BYPASSING CAPACITOR	3
DET1304	DET1304R0 30W DISSIPATOR	1
DET1276	DET1276R0 AMPLIFIER REAR BAR	1
DET1277	DET1277R1 AMPLIFIER INPUT BAR	1
DET1239	DET1239R1 AMPLIFIER MODULE COVER	1
SCH0371BR0	INTERFACE BOARD	1
07907	TO220 INSULATOR	2
07910	TO220 INSULATOR	2
02515	SMB SCREW cod. R114313000	1
08502	RG 316 50Ω CABLE	0.15
02516	SMB CONNECTOR FOR PCB	1
02248	17x17 NF FLANGE CONNECTOR	1

***SCH0382BR0* COMPONENT LIST**

Part Name/Number	Description	Qty.	Comps.
250hm08523	08523 WHITE TEFLON RF CABLE	0.40	CB1-2
CC 100pF-S 01092	01092 SMD 1206 CAPACITOR	5	C2, C7, C9, C11, C15
CC 100nF-S 01065C	01065C Y5V 1206 CAPACITOR	5	C3-5, C12-13
CC 33pF-S 01023A	01023A SMD 1206 CAPACITOR	1	C10
CC 1p2F-S 01081	01081 SMD 1206 CAPACITOR	1	C1
CC 1nF-S 01096	01096 SMD 1206 CAPACITOR	6	C19, C21, C23-26
CC 39pF-S 1024A	1024A SMD 1206 CAPACITOR	2	C20, C22
CC 47nF-S 01061A	01061A SMD 1206 CAPACITOR	3	C16-18
CC 6p8F-S 01084	01084 SMD 1206 CAPACITOR	1	C8
CE 10uF50V-S 01779A	01779A ELET. SMD CAPACITOR	2	C6, C14
CP 100pF-S 01135	01135 CHIP CHB	1	CP5
CP 150pF-S 01137	01137 CHIP CHB	1	CP1
CP 33pF-S 01127	01127 CHIP CHB	2	CP8, CP12
CP 470pF-S 01143	01143 CHIP CHB	4	CP2-4, CP6
CP 68pF-S 01131	01131 CHIP CHB	3	CP9-11
CP 3p6F-S 01104B	01104B CHIP CHB	1	CP7
D 1N4148-S 03002	03002 SMD DIODE	1	D1
D HSMS2802 03207	03207 SMD DIODE	2	D2-3
DZ 3V9-S	03134 SMD ZENER DIODE	4	DZ1-4
IND 6 SP_D4_d0.8mm-S	05043 INDUCTOR	2	L1-2
IND 7 SP_D6_d0.8mm-S	07691 COATED WIRE	0.30	L5
IND 4 SP_D8_d1.2mm-S	07684 SILVER WIRE	0.80	L8-L11
IND CBD8 05072	05072 INDUCTOR	1	L7
IND VK200 05013	05013 INDUCTOR	3	L3-4, L6
R 10R-S 00017A	00017A RES 1/4W 5% SMD 1206	1	R11
R 120R-S 00030A	00030A RES 1/4W 5% SMD 1206	1	R2
R 12R-S 00018A	00018A RES 1/4W 5% SMD 1206	1	R12
R 1K0-S 00041A	00041A RES 1/4W 5% SMD 1206	2	R6, R14
R 1M-S 00077A	00077A RES 1/4W 5% SMD 1206	2	R5, R13
R 220R-S 00033A	00033A RES 1/4W 5% SMD 1206	4	R23-26
R 22K-S 00057A	00057A RES 1/4W 5% SMD 1206	1	R21
R 22R-S 00021A	00021A RES 1/4W 5% SMD 1206	2	R19-20
R 47R-S 00025A	00025A RES 1/4W 5% SMD 1206	1	R4
R 4K7-S 00049A	00049A RES 1/4W 5% SMD 1206	2	R10, R18
R 56K-S 00062A	00062A RES 1/4W 5% SMD 1206	2	R8-9, R16-17
R 56R-S 00026A	00026A RES 1/4W 5% SMD 1206	1	R22
R 68R-S 00027A	00027A RES 1/4W 5% SMD 1206	2	R1, R3
RV 50K-S-H/S 00797	00797 SMD VARIABLE RESISTOR	2	R7, R15
TR1 BLF242	04005 TRANSISTOR	1	TR1
TR2 BLF245	03985 TRANSISTOR	1	TR2

DESCRIPTION

The Amplifier Module MFF0031A was designed to amplify FM carriers in the 87 - 108MHz band, and is able to provide an output of 300W CW. Besides it is provided with an RF Monitor output with a level of -40dBc $\pm$ 3dB. In order to obtain the desired gain, the amplifier is made up by two gain stages: the pilot stage uses a MOSFET BLF244, the final stage a MOSFET SD2942. An input adaptation circuit allows to adapt the module to various driving levels. The adjustment of the output is achieved by controlling the power level of the input signal. For both stages of the module there is a control terminal allowing to instantaneously disable the MOSFETs if needed. The output of the module is completed by an 9th order (4 cells) Low-pass Filter to attenuate the harmonic level of the esable signal, and by two high-directivity directional couplers needed to sample part of the Forward and Reflected Power for measuring their levels.

TECHNICAL CHARACTERISTICS

Frequency Range	87 - 108MHz	RF Output Impedance	50 Ω
Output Power	300W	Bias Current	BLF244 with Vdd = +28V: 300mA
Input Return Loss	>10dB	Bias Current	SD2942 with Vdd = +50V: 80mA
Power Supply	+50V	Gain	33dB (with 3dB interstage attenuation)
RF Input Impedance	50 Ω	Efficiency	54%

MFF0031AR0 COMPONENT LIST

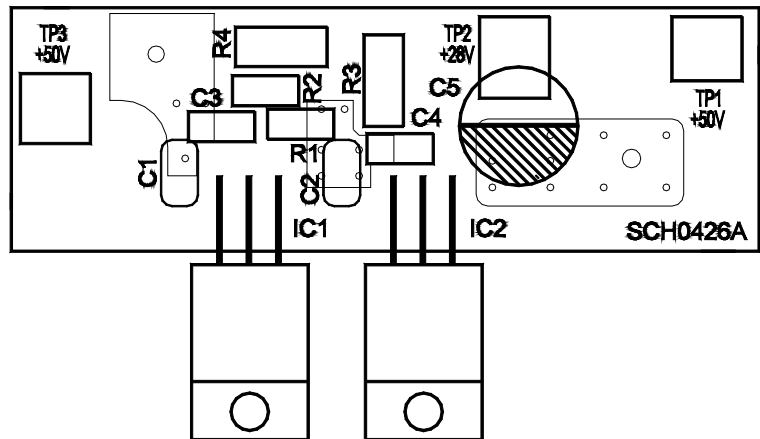
Part Name/Number	Description	Qty.
00135	47 Ω 1/2W RESISTOR	1
00664	LM35DT THERMAL SENSOR	1
01003	0.5pF CERAMIC CAPACITOR	1
01092	100pF MULTITURN CHIP	1
01400	BYPASSING CAPACITOR	1
01403	BYPASSING CAPACITOR	4
02209	PANEL MOUNTING N CONNECTOR	1
02514	PANEL MOUNTING SMB R114553000	2
04315	LM7805 VOLTAGE REGULATOR	1
04321	LM7812 VOLTAGE REGULATOR	1
04340A	LM317HVT VOLTAGE REGULATOR	2
05742	COVER	1
07907	TO220 INSULATOR	4
07910	TO220 INSULATOR	4
DET1326R0P	DET1326R0 HEAT SINK	1
SCA0129R0B	SCA0129R0 FM AMPLIFIER BOX	1
SCH0371BR0	INTERFACE BOARD	1
SCH0426AR0	FM AMPLIFIER INTERFACE BOARD	1
SCH0427AR0	300W FM AMPLIFIER BOARD	1

SCH0427AR0 COMPONENT LIST

Part Name/Number	Description	Qty.	Comps.	Page 1/2
01081	01081 1.2pF MULT. CHIP CAPAC.	1	C4	
CC 100pF 01029	01029 100pF CAPACITOR	2	C5, C10	
CC 150pF 01031	01031 150pF CAPACITOR	1	C1	
CC 220pF 01033	01033 220pF CAPACITOR	1	C3	
01096	01096 1nF MULT. CHIP CAPAC.	2	C34, C36	
CC 10nF 01053	01053 10nF 500V CAPACITOR	2	C19, C25	
CC 47nF 01061	01061 47nF CAPACITOR	2	C12-13	
CC 100nF 01065	01065 100nF CAPACITOR	3	C6-7, C9	
01073A	01073A 470nF 100V POL. CAPAC.	2	C14, C26	
CC 39pF 01024	01024 39pF CAPACITOR	2	C33, C35	
01127	01127 33pF CHIP CAPACITOR	1	C11	
01779	01779 10uF 63V ELET. CAPAC.	1	C8	
01795B	01795B 100uF 100V ELET. CAPAC.	2	C24, C27	
01143	01143 470pF CHIP CAPACITOR	8	C15-18, C20-23	
01206	01206 27pF 500V 10% CAPACIT.	1	C32	
01210	01210 56pF 500V 10% CAPACIT.	2	C29, C31	
01211	01211 68pF 500V 10% CAPACIT.	1	C30	
R 220 00033A	00033A RES SMD 1206	4	R28-31	
R 1K 00041A	00041A RES SMD 1206	1	R3	
R 3K 00047A	00047A RES SMD 1206	1	R27	
R 2.7K 00046A	00046A RES SMD 1206	1	R7	
R 6.8K 00051A	00051A RES SMD 1206	1	R26	
R 33K 00059A	00059A RES SMD 1206	2	R5, R22	
R 100K 00065A	00065A RES SMD 1206	1	R25	
R 1M 00077A	00077A RES SMD 1206	1	R2	
R 10 00127	00127 RES 1/2W	3	R8, R20, R23	
R 18 00130	00130 RES 1/2W	3	R17-19	
R 22 00131	00131 RES 1/2W	2	R9, R12	
R 27 00132	00132 RES 1/2W	2	R10-11	
R 47 00135	00135 RES 1/2W	1	R1	
R 560 00148	00148 RES 1/2W	4	R13-16	
R 100K 00661	00661 NTC 100K 5%	1	R21	
R 100K 00791	00791 MULT. TRIMMER	1	R24	
R 50K 00797	00797 SMT TRIMMER	1	R4	
05043	05043 6 TURNS 4mm INDUCTOR	2	L3, L6	
05045	05045 15 TURNS 5mm INDUCTOR	1	L4	
05013	05013 VK 200	1	L13	
05064	05064 FERRITE	2	L7-8	
C0129	C0129 1.5mmq BLACK CABLE	0.15	L7-8	
05064	05064 FERRITE	1	T1	
08504	08504 50Ω RG58 CABLE	0.10	T1	
C0171	C0171 WHITE TEFLON CABLE	0.18	T1	
CAV105	CAV105 25Ω 201mm RG316 CABLE	2	CB1-2	

Part Name/Number	Description	Qty.	Comps.	Page 2/2
CAV095	CAV095 50 Ω 288mm RG303 CABLE	1	CB3	
07684	1.2mm SILVER WIRE	0.70	L6, L9-12	
PN0666A	PRINTED CIRCUIT BOARD	1		
03009	1N4007 DIODE	1	D1	
03203	BAT83 DIODE	2	D2-3	
R 22K 00057A	00057A RES SMD 1206	1	R6	
03134	ZENER 3.9V DIODE	2	DZ1-2	
01027	01027 68pF CAPACITOR	1	C2	
05042	05042 3 TURNS 4mm INDUCTOR	2	L1-2	
01205	01205 22pF 500V CAPACITOR	1	C28	
03471	03471 SD2942 TRANSISTOR	1	TR2	
03981	03981 BLF244 TRANSISTOR	1	TR1	

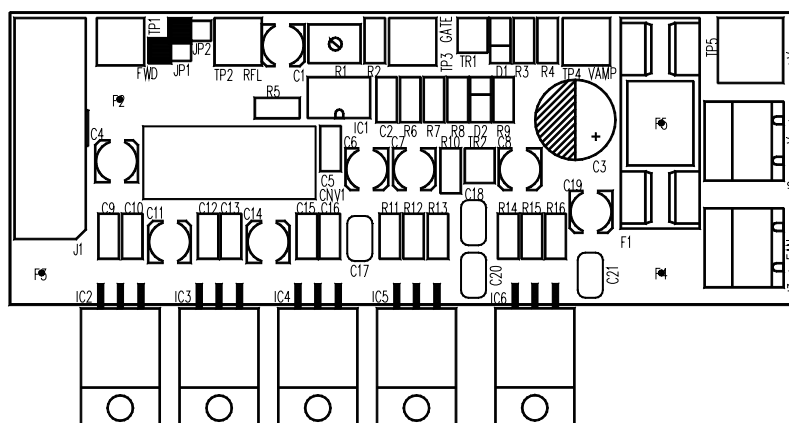
SCH0426AR0 FM Amplifier Interface Board Component layout



SCH0426AR0 COMPONENT LIST

Part Name/Number	Description	Qty.	Comps.
04340A	04340ALM317HVT LINEAR REG	2	IC1-2
01065I	01065I 100nF AVX CAPACITOR	2	C1-2
01065C	01065C 100nF CAPACITOR	2	C3-4
R 0.15 00405	00405 RES SMD 1W	2	R3-4
R 4.7K 00049B	00049B RES SMD 1206	1	R1
R 220 00033C	00033C RES SMD 1206	1	R2
01791A	01791A 47uF CAPACITOR	1	C5
PN1316AR1B	PRINTED CIRCUIT BOARD	1	

SCH0371BR0 Interface Board Component layout



SCH0371BR0 COMPONENT LIST

Part Name/Number	Description	Qty.	Comps.
CC 100nF-S 01065C	01065C Y5V 1206 CAPACITOR	8	C2, C5, C9-10, C12-13, C15-16
CC 100nFAVX 01065A	01065A CERAMIC CAPACITOR	4	C17-18, C20-21
CE 100uF100V	01795B ELETT. CAPACITOR	1	C3
CE 10uF35V-S 01778A	01778A ELET. SMD CAPACITOR	8	C1, C4, C6-8, C11, C14, C19
CNV DC-DC TMR1211	04832B DC DCCONVER. IN 15V	1	CNV1
D BAS85-S	03024 SMD DIODE SCHOTTKY	2	D1-2
FUSE 2A-PCB 7543	7543 FUSE HOLDER+FUSE 5x2	1	F1
IC 7805 04315	04315 VOLTAGE REGULATOR	1	IC3
IC 7812 04321	04321 VOLTAGE REGULATOR	1	IC4
IC LM317 04340	04340 INTEG CIRCUIT	2	IC5-6
IC LM35DT 00664	00664 INTEG CIRCUIT	1	IC2
IC LMC6482-S	04632 SMD INTEG CIRCUIT	1	IC1
JFC-16P 02701-02700	02701+02700 PCB CONNECTOR	1	J1
J SCREWCONN2 02853	02853 PCB SCREW CONNECTOR	2	J2-3
JU JUMP2 02739-02742	02739+02742 MALE PAN2	2	JP1-2
R 100K-S 00065A	00065A RES 1/4W 5% SMD 1206	2	R4, R10
R 100R-S 00029A	00029A RES 1/4W 5% SMD 1206	2	R5, R8
R 10K-S 00053A	00053A RES 1/4W 5% SMD 1206	2	R3, R9
R 1K0-1%-S 00041B	00041B RES 1/4W 1% SMD 1206	1	R7
R 270R-S 00034A	00034A RES 1/4W5% SMD 1206	2	R13, R16
R 3K9-1%-S 00048B	00048B RES 1/4W 1% SMD 1206	1	R6
R 47K-S 00061A	00061A RES 1/4W 5% SMD 1206	2	R12, R15
R 5K6-S 00050A	00050A RES 1/4W 5% SMD 1206	2	R11, R14
R 68K-S 00063A	00063A RES 1/4W 5% SMD 1206	1	R2
RV 10K-S-H/S 00793	00793 SMD VARIABLE RESISTOR	1	R1
TR BC848 03457	03457 NPN SMD TRANSISTOR	2	TR1-2

1		2		3		4						
A		B		C		D		E		F		
PSP-600A DIFFERENT COMPONENT:												
PART NO. MODEL	C1	LF1	LF2	C10	R6	R5						
5V	104 250V	TF-360	TF-360	NC	0.1 2W	0.1 2W						
12V	334 250V	LF-211	TR-436	0.33u 275V	0.07 2W	0.13 2W						
13.5V	334 250V	LF-211	TR-436	0.33u 275V	0.07 2W	0.13 2W						
15V	334 250V	LF-211	TR-436	0.33u 275V	0.07 2W	0.13 2W						
24V	334 250V	LF-211	TR-436	0.33u 275V	0.07 2W	0.13 2W						
27V	334 250V	LF-211	TR-436	0.33u 275V	0.07 2W	0.13 2W						
48V	334 250V	LF-211	TR-436	0.33u 275V	0.07 2W	0.13 2W						
4												
ECN.	CORE	DATE	DESCRIPTION	APPROVAL	DESIGNED	CHECKED	DRAWN			SUBJECT	PSP-600A	
										REVISION	R0	DATE 2004-08-17
										FILENAME	PSP-600A-R0.sch	
									MEAN WELL ENTERPRISES CO., LTD. Sheet 2 of 2			
A		B		C		D		E		F		

PSP-600B DIFFERENT COMPONENT:																									
A		B			C			D			E			F											
PART NO. MODEL	C200 C201	C205 C207	C208	C240	T1	L70	D70.73	D71.72	ZD60	ZD63	ZD64	R200-- R203	R210	R211	R212	R256	R260	R261	R293	R294	R295	C102	C113	D56,D57	
5V	472 1K	6800u 6.3V	3300u 6.3V	332 50V	TF-1147	TR-499	S60C 3ML	S60C 3ML	JUMP	5.8V	JUMP	10 1206	51 1W	39 1W	560	10K	1K5	1K1	30K9	1K8	2K4	10u 400V	NC	1SS355	
12V	222 1K	3300u 16V	1500u 16V	332 50V	TF-1148	TR-500	C25C PQ60	C25C PQ60	JUMP	14.2V	JUMP	22 1206	150 2W	300 2W	1K	51K	6K8	1K5	1K5	28K	910	30K	68u 400V	104 50V	X
13.5V	332 1K	2200u 25V	1500u 16V	472 50V	TF-1007	TR-501	C25C PQ60	C25C PQ60	JUMP	16.1V	JUMP	20 1206	220 2W	270 2W	1K2	51K	10K	1K8	1K8	35K7	1K	X	68u 400V	104 50V	X
15V	222 1K	2200u 25V	1000u 25V	472 50V	TF-1149	TR-338	30CP Q100	30CP Q100	JUMP	16.1V	JUMP	36 1206	270 2W	300 2W	1K5	51K	10K	1K5	1K5	37K4	1K	10K	68u 400V	104 50V	X
24V	471 1K	1500u 35V	680u 35V	102 50V	TF-1150	TR-502	D9202	D9202	13V	15V	13.8V	200 1206	680 2W	680 2W	1K5	51K	20K	2K	2K	40K2	620	X	68u 400V	104 50V	X
27V	331 1K	1500u 35V	680u 35V	222 50V	TF-1151	TR-503	D9202	D9202	10.6V	18V	15V	240 1206	1K 2W	1K 2W	1K8	51K	22K	1K8	1K8	40K2	560	X	68u 400V	104 50V	X
48V	221 1K	470u 63V	330u 63V	222 50V	TF-1152	TR-504	X	PA905C4	16.1V	33V	27V	470 1206	3K3 2W	3K3 2W	3K6	20K	33K	1K5	1K5	24K9	510	3K	68u 400V	104 50V	X

PSP-600B DIFFERENT COMPONENT:																								
A		B			C			D			E			F										
PART NO. MODEL	C106	C104	R110	R111	R109	A--B JUMP	ZD65	R242	C255	R277	C131	R244	Q70	R114	D84	C241	R120	D81	R113	R103-- R104				
5V	10u 50V	102 50V	680	1R	0.47R 2W	J1,J2,J3	0R 1/8W	30K	X	75K	102 250VAC	3K	2SA1015	15K	47K	X	1K	1K	0R	X	12			
12V	X	X	1K	4.7R	0.15R 2W	J1,J2	0R 1/8W	30K	X	100K	102 250VAC	2K7	2SA1015	18K	47K	X	1K	1K	1N4148	X	5.1			
13.5V	X	X	1K	4.7R	0.15R 2W	J1,J2	0R 1/8W	30K	X	100K	102 250VAC	2K7	2SA1015	18K	47K	X	1K	1K	1N4148	56K	12			
15V	X	X	1K	1R	0.15R 2W	J1,J2	0R 1/8W	30K	X	118K	102 250VAC	2K8	2SA1015	18K	47K	X	1K	1K	1N4148	56K	12			
24V	X	X	1K	1R	0.15R 2W	J1,J2	0R 1/8W	30K	102 50V	150K	102 250VAC	2K7	2SA1015	18K	47K	X	680	1N4148	56K	12				
27V	X	X	1K	1R	0.15R 2W	J1,J2	0R 1/8W	47K	102 50V	160K	102 250VAC	2K67	2SA1015	18K	47K	471 50V	1K	1N4148	56K	12				
48V	X	X	680	0R	0.15R 2W	J1	16.1V	68K	102 100V	150K	222 250VAC	2K7	2SB647A	18K	1N4148	471 50V	470	1N4148	56K	12				

ECN. CORE		DATE	DESCRIPTION	APPROVAL	DESIGNED	CHECKED	DRAWN	SUBJECT		PSP-600B					
									REVISION	R3	DATE 2006-12-21				
									FILENAME	PSP-600B-R3.sch					
A		B			C			D			E		F		
										MEAN WELL ENTERPRISES CO., LTD.		Sheet	2	of	2