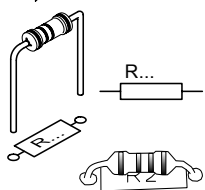


START

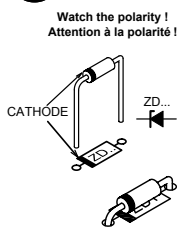
1 Resistor - Weerstand - Résistance - Widerstand - Resistencia - Motstand - Vastus - Resistenze



◇ R1 ... R4 : 10K	(Brown, Black, Orange) - (Bruin, Zwart, Oranje) - (Brun, noir, Orange) - (Braun, Schwarz, Orange) - (Brun, Svart, Orange) - (Ruskea, Musta, Oranssi) - (Marrón, Negro, Naranjado) - (Castanho, Preto, Laranja) - (Marrone, Nero, Aranciato)
◇ R5 ... R7 : 100K	(Brown, Black, Yellow) - (Bruin, zwart, Geel) - (Brun, noir, Jaune) - (Braun, Schwarz, Gelb) - (Brun, Svart, Gul) - (Ruskea, Musta, Keltainen) - (Marrón, Negro, Amarillo) - (Castanho, Preto, Amarelo) - (Marrone, Nero, Giallo)
◇ R8 : 1K	(Brown, Black, Red) - (Bruin, Zwart, Rood) - (Brun, Noir, Rouge) - (Braun, Schwarz, Rot) - (Brun, Svart, Röd) - (Ruskea, Musta, Punainen) - (Marrón, Negro, Rojo) - (Castanho, Preto, Encarnado) - (Marrone, Nero, Rosso)
◇ R9 : 560	(Green, Blue, Brown) - (Groen, Blauw, Bruin) - (Vert, Bleu, Brun) - (Grün, Blau, Braun) - (Grön, Blå, Brun) - (Vihreä, Sininen, Ruskea) - (Marrón, Azul, Marrón) - (Verde, Azul, Castanho) - (Verde, Blu, Marrone)
◇ R10 : 330	(Orange, Orange, Brown) - (Oranje, Oranje, Bruin) - (Orange, Orange, Brun) - (Orange, Orange, Braun) - (Orange, Orange, Brun) - (Oranssi, Oranssi, Ruskea) - (Naranjado, Naranjado, Marrón) - (Laranja, Laranja, Castanho) - (Aranciato, Aranciato, Marrone)
◇ R11 ... R15 : 4K7	(Yellow, Purple, Red) - (Geel, Paars, Rood) - (Jaune, Violet, Rouge) - (Gelb, Violet, Rot) - (Gul, Lila, Röd) - (Keltainen, Purppura, Punainen) - (Amarillo, Morado, Rojo) - (Amarelo, Violeta, Encarnado) - (Giallo, Viola, Rosso)
◇ R16 : 3K3	(Orange, Orange, Red) - (Oranje, Oranje, Rood) - (Orange, Orange, Rouge) - (Orange, Orange, Rot) - (Orange, Orange, Röd) - (Oranssi, Oranssi, Punainen) - (Naranjado, Naranjado, Rojo) - (Laranja, Laranja, Encarnado) - (Aranciato, Aranciato, Rosso)
◇ R17 : 2K7	(Red, Purple, Red) - (Rood, Paars, Rood) - (Rouge, Violet, Rouge) - (Rot, Violet, Rot) - (Röd, Lila, Röd) - (Punainen, Purppura, Punainen) - (Rojo, Morado, Rojo) - (Encarnado, Violeta, Encarnado) - (Rosso, Viola, Rosso)
◇ R18 : 10	(Brown, Black, Black) - (Bruin, zwart, zwart) - (Brun, Noir, Noir) - (Braun, Schwarz, Schwarz) - (Brun, Svart, Svart) - (Ruskea, Musta, Musta) - (Marrón, Negro, Negro) - (Castanho, Preto, Preto) - (Marrone, Nero, Nero)

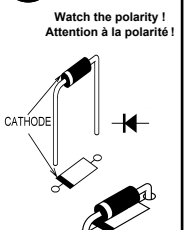
MK182_rev.1

2 ZENERDIODE



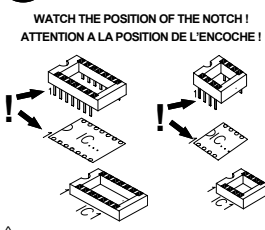
◇ ZD1 : 5V1

3 DIODE



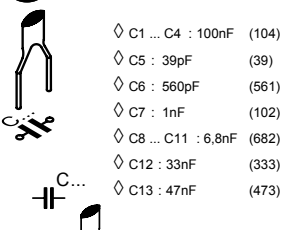
◇ D1 : 1N4007

4 IC SOCKET



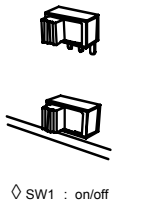
◇ IC1 : 16p
◇ IC2, IC3 : 8p

5 CAPACITOR



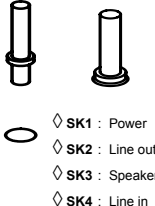
◇ C1 ... C4 : 100nF (104)
◇ C5 : 39pF (39)
◇ C6 : 560pF (561)
◇ C7 : 1nF (102)
◇ C8 ... C11 : 6,8nF (682)
◇ C12 : 33nF (333)
◇ C13 : 47nF (473)

6 SWITCH



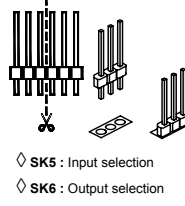
◇ SW1 : on/off

7 PCB PINS



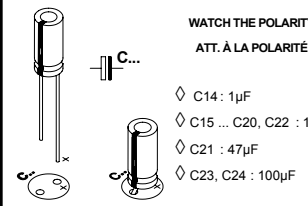
◇ SK1 : Power 2x
◇ SK2 : Line out 2x
◇ SK3 : Speaker 2x
◇ SK4 : Line in 2x

8 PIN HEADERS



◇ SK5 : Input selection
◇ SK6 : Output selection

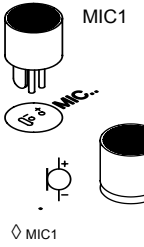
9 ELECTROLYTIC CAPACITOR



WATCH THE POLARITY !
ATT. À LA POLARITÉ !

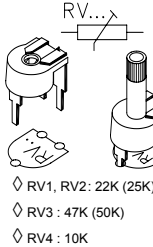
◇ C14 : 1µF
◇ C15 ... C20, C22 : 10µF
◇ C21 : 47µF
◇ C23, C24 : 100µF

10 MIC



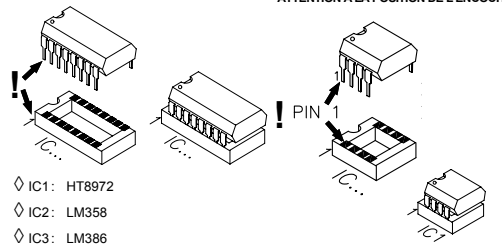
◇ MIC1

11 TRIMMER



◇ RV1, RV2 : 22K (25K)
◇ RV3 : 47K (50K)
◇ RV4 : 10K

12 IC



◇ IC1 : HT8972
◇ IC2 : LM358
◇ IC3 : LM386

13 Select mode for IN- and OUTPUT:

INPUT	OUTPUT
Microphone	Line
line	speaker

Volume
Amplifier
Ex. CD-player
LINE IN

Microphone level
Delay
Feedback level
9V Battery Or 9 ... 12VDC regulated
Ex. 2W speaker (8ohm), Velleman ordernr. MLS3