Mic Amplifier & VOX
DL6GL, Rev. 3, 20.11.2016
+12V/28mA
IC1, NE5532
IC2, NE5532
IC3 TL081
IC4, ½ TL082
IC5, ½ CD4538
Electret mic supply
PC headset, mic
Input imp. 680R/47k
PTT
*) Poly caps
Highpass 350 Hz
Lowpass 2,9 kHz
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Calculated with TI FilterPro 2.0
Audio 850 mVpp to DSB-Modulator (Zin~1kΩ)
T5 2N7002 BSS138
T2 2N7002 BSS138
T3 BSS84
T4 2N7002 BSS138
+12V CW
+12V RX
DSB modulator mute
Hold time 0.2 to 1.2 sec
VOX
Anti VOX
Loud-speaker
1 kHz generator
Key
Adjust R46 if necessary for reliable oscillation and Uout ~ 1Vpp
T1 BC849B
R = R42 = R43 = R44
C = C39 = C40 = C41
2N7002, BSS138 BSS84 (top view)
BC849 (top view)
NE5532, TL082 (top view)