

## Inhaltsverzeichnis

# Datei:Minix Handbuch Seite 6 MOD.jpg

## Basisinformationen

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| Seitenbild                                 | <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><u>Schaltungsbeschreibung</u></p> <p>Der Empfänger MINIX MFB 21, da ist auf einer Platine mit dem Maßen 97 x 96 mm aufgebaut. Der Dimensionen sind sowohl die Größe als auch unrichtig die Größe messen werden. Das Gerät ist für den Empfang von Amplitudenmodulierten (AM) und Frequenzmodulierten (FM) Signalen mit einer Bandbreite von 10 bis 100 MHz bestimmt. Durch Verwendung moderner Halbleiter werden optimale Empfangseigenschaften erreicht. Die Konstruktion und die einzelnen Bauelemente sind wie folgt:</p> <p>Das Antennensystem ist verbunden über die Spule L2 mit dem HF-Verstärker T1, der mit einem Dual-Diode-Diodeschaltkreis (DSC) arbeitet. Parallel zum Antenneneingang liegt ein Siebkondensator C1 mit der Spule L1 und die Stegkapazität im Bereich von 10 MHz abgelesen wird. Die in T1 verstärkte Signal gelang über den Koppler L3/L4 auf den 1. Mischer T2. Auch hier wird ein Dual-Diode-Diodeschaltkreis (DSC) verwendet. Der 1. Mischer T2 ist frequenzumsetzend. Die Oszillationsfrequenz liegt im Bereich von 50 MHz. Eine Kernspindel und transparenthaltende Schaltungsbauelemente sorgen für höchste Frequenzstabilität. In dem Transistor T3 und T4 wird das Oszillationsignal verstärkt und vergrößert. Über L5/L6 erfolgt die Kopplung auf den Mischer T5. Das mit der L7 und L8 50 MHz resonanzfähige Band durchläuft das relative Bandfilter L9-L11 und gelangt auf die 2. Mischerstufe T6, die mit einem FET verstärkt ist. Der Oszillationsverstärker T7 erzeugt die für die Mischung auf die 2. ZF erforderliche Signale von 5,4 MHz. Im Eingang des L2-KHF-Verstärkers erzeugt ein VAK100 metastabiles Filter für die weitere Selektion. Die Bandbreite des Filters beträgt 4 kHz bei 5,4 MHz, um die verschiedenen Detektorarten anpassbar zu sein. Das Signal wird weiter in einem RC-Frequenzweichenverstärker, bestehend aus den Transistoren T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T56, T57, T58, T59, T60, T61, T62, T63, T64, T65, T66, T67, T68, T69, T70, T71, T72, T73, T74, T75, T76, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94, T95, T96, T97, T98, T99, T100, T101, T102, T103, T104, T105, T106, T107, T108, T109, T110, T111, T112, T113, T114, T115, T116, T117, T118, T119, T120, T121, T122, T123, T124, T125, T126, T127, T128, T129, T130, T131, T132, T133, T134, T135, T136, T137, T138, T139, T140, T141, T142, T143, T144, T145, T146, T147, T148, T149, T150, T151, T152, T153, T154, T155, T156, T157, T158, T159, T160, T161, T162, T163, T164, T165, T166, T167, T168, T169, T170, T171, T172, T173, T174, 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| Gesamtzahl der Bearbeitungen  | 1 |
| Gesamtzahl unterschiedlicher Autoren                                  | 1 |
| Anzahl der kürzlich erfolgten Bearbeitungen (in den letzten 90 Tagen) | 0 |
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