

TRANSVERTER 24048 <=> 144 MHz

The diagram illustrates a transverter circuit for converting between 24048 MHz and 144 MHz. The circuit is powered by a 13.8V supply, which is also used for the antenna system.

Power and Grounding: The 13.8V supply is connected to the antenna system and the transverter modules. Grounding is indicated by GND symbols.

Frequency and Power Levels:

- 124.5 MHz LO (x 96) → 124.5 MHz x 96 = 11952 MHz
- 11952 x 2 = 23904 + 144 = 24048 MHz
- 144 MHz RX/TX
- 13.8V
- 124.5 MHz
- 120mA
- 10V 200mA
- fine tune (cca 1V)
- TCXO
- DB6NT 24GHz LO (x 96)
- DB6NT 24GHz TRX
- WG image filter
- DB6NT ver. 9A1Z sequencer
- TX RELAY TO GND
- RX12V
- TX12V
- DMC LNA
- DB6NT 24G LNA
- DMC 24G PA 200.mW
- DB6NT 24G PA 5 mW
- MON OUT (1V)
- or LED indicator on sequencer module
- option

Components and Modules:

- 10V 200mA TCXO (fine tune cca 1V)
- DB6NT 24GHz LO (x 96)
- DB6NT 24GHz TRX
- WG image filter
- DB6NT ver. 9A1Z sequencer
- DMC LNA
- DB6NT 24G LNA
- DMC 24G PA 200.mW
- DB6NT 24G PA 5 mW

Connections and Signals:

- 13.8V IN
- GND
- 13.8V
- 124.5 MHz
- 120mA
- 10V 200mA
- fine tune (cca 1V)
- TCXO
- DB6NT 24GHz LO (x 96)
- DB6NT 24GHz TRX
- WG image filter
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Notes:

- 13.8V IN
- GND
- 13.8V
- 124.5 MHz
- 120mA
- 10V 200mA
- fine tune (cca 1V)
- TCXO
- DB6NT 24GHz LO (x 96)
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24 GHz

TT POWER AMP
 131-112167-001
 090-60001-001
 S/N: 8T12K19
 OPT: 001
 REV: 1
 GND TO DET
 GND 8.4V TEST VOLT ALM

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