



DNP_VDD: Populate R10 = 0E to short VDD_U1 + VDD_U2

DNP = R5 + C10 + R17 + C28 are placeholders for reduced EMC emission

DNP_TX: Place 10R at R11 + R12 when using common transmitter
Also place C17 and C18 and recalculate C_TX as described below
Also do not place R20 + R21 + C19 + C20

C_ADJ = To be adjusted according to coil inductivity. Calculate C_TX with the given formula.
C_ADJ = C_TX when common transmitter is in use
C_ADJ = 2 x C_TX when separate transmitters are in use
It's recommended to use C0G or NP0 ceramic capacitors

Use dielectric strength Vr >= 50V capacitors for (C8 .. C16) and (C26 .. C34)

$$f_{TX} = \frac{1}{2\pi\sqrt{L_{TX}C_{TX}}} \rightarrow C_{TX} = \frac{1}{(2\pi f_{TX})^2 L_{TX}}$$

LEGEND

- Component Size 0603
- Component Size 0402
- Component Size 0805
- Component Placement Suggestion
- Optional Component

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