



Measurement Report

Nokeval, MCU-2, 916 MHz variant, 4-layer PCB

Revision History

Rev.	Date	Description
1.0	08.07.2025	Initial version

EXECUTIVE SUMMARY

This measurement report details the antenna measurements for new 4-layer MCU-2 (LoRa 916 MHz).

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MEASUREMENT SETUP

The device was measured in free-space conditions.

MEASUREMENT RESULTS

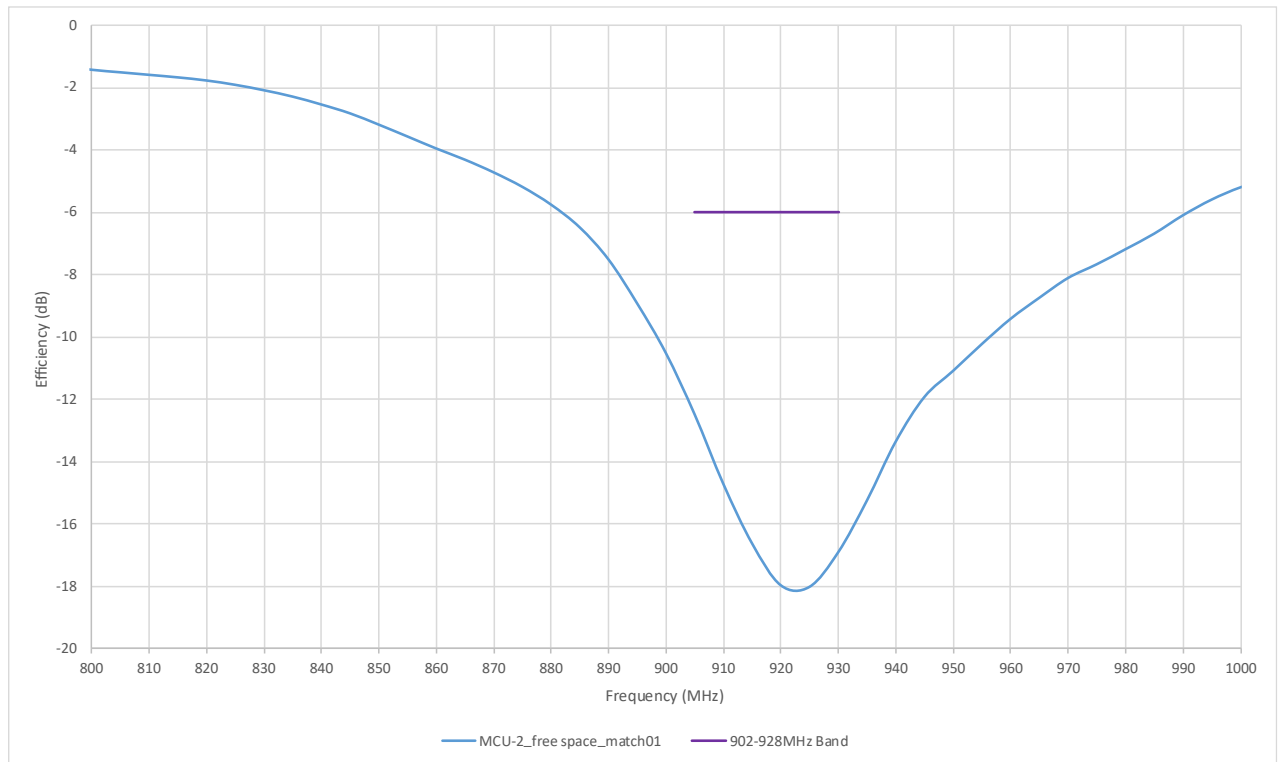


Figure 1: Return loss (S11)

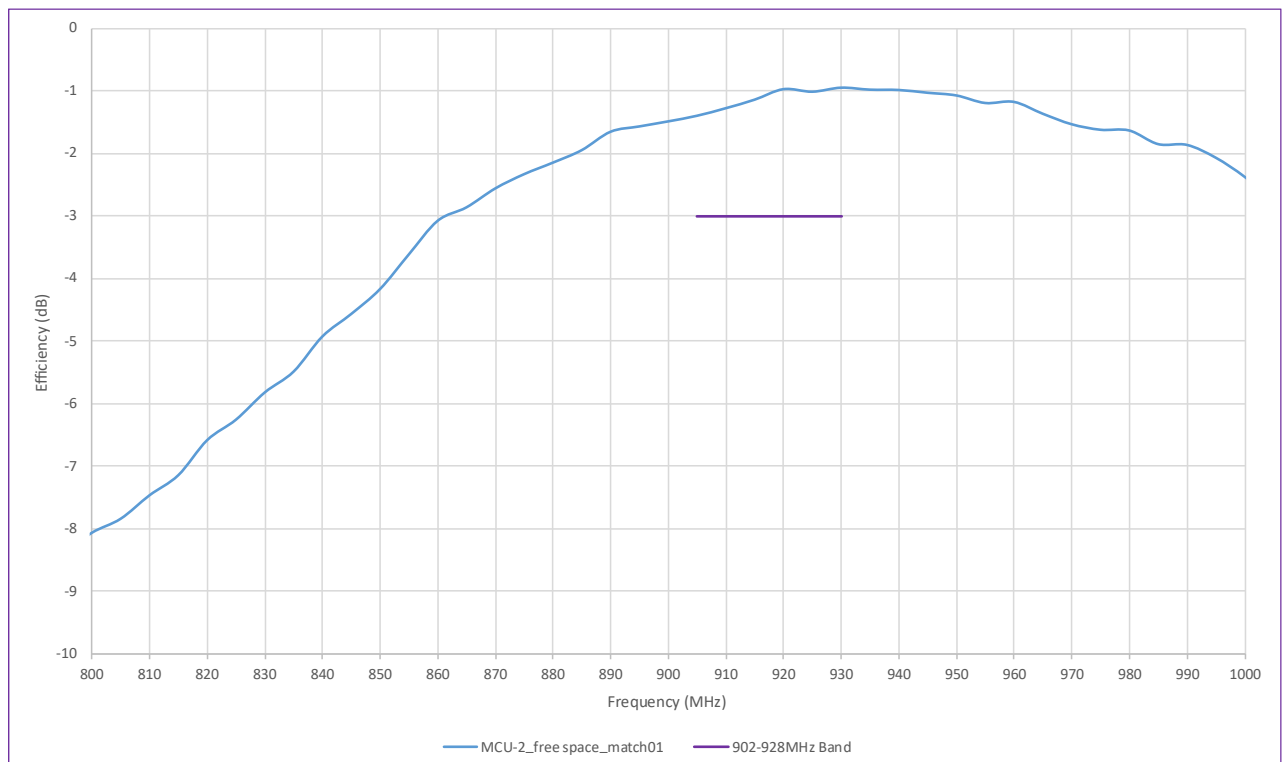


Figure 2: Total efficiency

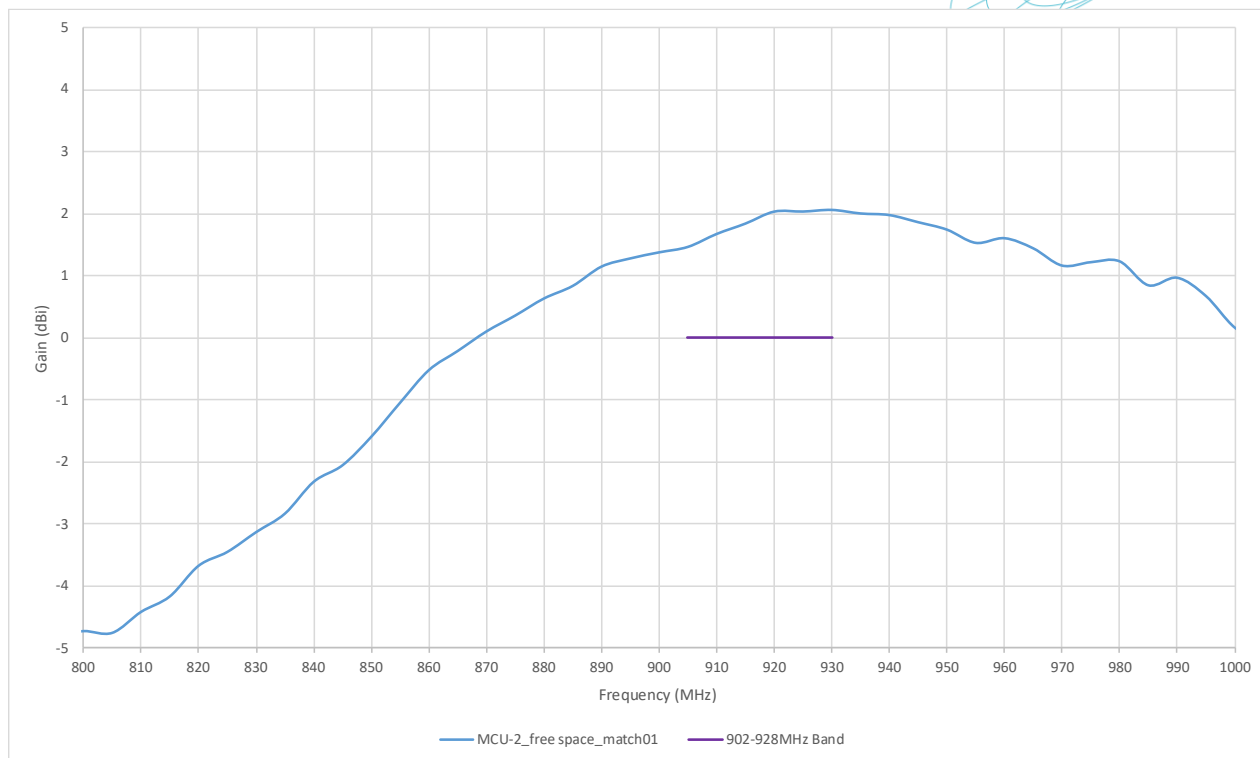


Figure 3: Maximum gain

Table 1. LoRa Maximum Gain Value

MCU-2, maximum gain, LoRa 916 MHz (908-928 MHz)	+2.1 dBi
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MATCHING CIRCUIT

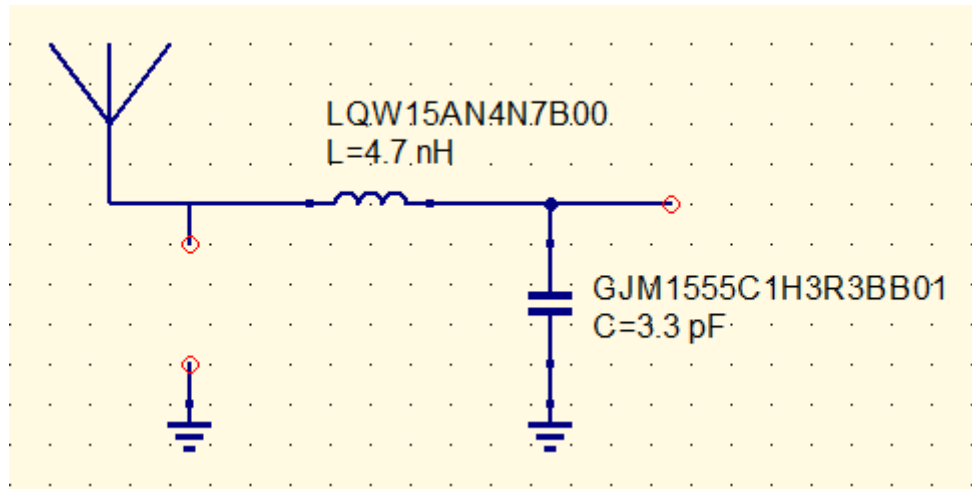


Figure 4. New LoRa matching circuit

Inductor, 4.7 nH: Murata LQW15AN4N7B00

Capacitor, 3.3 pF: Murata GJM1555C1H3R3BB01