Test Report acc. to FCC Title 47 CFR Part 15
relating to
FEIG ELECTRONIC GmbH
ID MRMU400

RF Exposure Evaluation Report

Title 47 - Telecommunication
Part 15 - Radio Frequency Devices
Subpart C – Intentional Radiators
Measurement Procedure:
ANSI C63.4-2014
ANSI C63.10-2013

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-12053-01-03

Version	Applied changes	Date of release

TÜV NORD Hochfrequenztechnik GmbH & Co. KG
LESKANPARK, Building 10, Waltherstr. 49-51, 51069 Cologne, Germany
Tel.: +49 221 8888950
hf@tuev-nord.de

00	**Initial release**	**2025-05-08**

RF Exposure Declaration Report

TÜV NORD Hochfrequenztechnik GmbH & Co. KG
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RF Exposure evaluation

Regulation

According to § 15.247 (i), radio frequency devices operating under the provisions of this part are subject to the radio frequency radiation exposure requirements specified in §§ 1.1307(b), 1.1310, 2.1091, and 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a “general population/uncontrolled” environment. Applications for equipment authorization of mobile or portable devices operating under this section must contain a statement confirming compliance with these requirements. Technical information showing the basis for this statement must be submitted to the Commission upon request.

Test results

MPE calculation to the FCC ID: PJMMRU400

These equations are generally accurate in the far field of an antenna but will over predict power density in the near field, where they could be used for making a “worst case” prediction.

$$S = PG/4\pi R^2 \quad \text{or} \quad S = EIRP/(4\pi R^2)$$

Where:

S = power density (in appropriate units, e.g. mW/cm^2)
P = power input to the antenna (in appropriate units e.g. mW)
G = power gain of the antenna in the direction of interest relative to the isotropic radiator
R = distance to the centre of radiation of the antenna (appropriate units e.g. cm)
EIRP = equivalent isotropically radiated power

Calculation:

Operating Frequency	EIRP**		Power density (S) 20 cm	
			Calculated	Limit
GHz	dBm	mW	W/ m^2	
902.75	35.4	3467.4	6.9	10.0
915.25	35.3	3388.4	6.7	10.0
927.25	35.3	3388.4	6.7	10.0

EIRP is calculated taking into consideration an EUT supported external antenna ID ANT: U290/290 with a maximum gain of 6 dBi.

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