RF EXPOSURE EVALUATION EUT Specification

EUT	Projector				
Model Name	K2s, L2, L3, L4, L5, L2e, L3e, L4e, L5e, L2s, L3s, L4s, L5s, T4, T4s, Pico T4, T5, T5s, Pico T5, Pro U15, Pro U15e, Pro U15s, U15, U15s, U15e, Pro U16, Pro U16e, Pro U16s, U16, U16s, U16e, Pro V15, Pro V15s, Pro V15e, V15, V15s, V15e, Pro V16, Pro V16s, Pro V16e, V16, V16s, V16e, Y1, Y2, Y3, Y1s, Y2s, Y3s, R1, R2, R3, R1s, R2s, R3s, B1, B2, B3, B1s, B2s, B3s, E1, E2, E3, E1s, E2s, E3s, A1, A2, A3, A1s, A2s, A3s				
Frequency band	☐ WLAN: 2.412GHz ~ 2.462GHz				
(Operating)	WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHzWLAN: 5.745GHz ~ 5825GHzSolution of the state of the				
Device category	□ Portable (<20cm separation)⋈ Mobile (>20cm separation)□ Others				
Antenna diversity	Single antenna ☐ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity				
Max. output power	85.00 dBuV/m (-10.258dBm)(0.094mW)				
Antenna gain	0 dBi				
Evaluation applied	☐ MPE Evaluation☑ SAR Evaluation				

Standard Requirement

Portable Device

According to §15.247(i) and §1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance V6, section 4.3.1.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation17
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Measurement Result

Channel	Max Output	Max tune-up	Max Output	Max Output	Calculation	Threshold
Frequency	power	tolerance	power	power	Value (Note 1)	Value
(GHz)	(dBm)	Output power	(dBm)	(mW)		
		(dBm)				
13.567	-10.258	-10.258±1	-9.258	0.119	0.087	3.0

E = EIRP - 20log D + 104.8

where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

EIRP=E-104.8+20logD=85.00 -104.8+20log3= -10.258dbm

Note 1: Calculation Value =[(max. power of channel, mW)/(min.

test separation distance, mm)] • [√ f(GHz)].

Fox example: $0.119/5^* \sqrt{13.567} = 0.087$ ≤ 3.0

According to KDB447498 D01 V6, threshold at which no SAR required is ≤3.0 for 1-g SAR, separation distance is 5mm, and no simultaneous SAR measurement is required.

The SAR measurement is not necessary.