

General Information:

Applicant: Colder Products Company
Environment: General Population/Uncontrolled Exposure
Exposure Conditions: Portable

Technical Information:

Minimum Test Separation Distance: 5 mm
Highest Operating Frequency: 13.56 MHz
Antenna Type: 8004201 3-turn loop
Antenna Gain: 0
Maximum Transmitter Conducted Power: dBm, mW
Maximum Transmitter EIRP: dBm, 0.0000336 mW

Justification for SAR Test Exclusion:

Standalone SAR Test Exclusion:

Per KDB 447498 D01 General RF Exposure Guidance v06, the standalone 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

$$= (0.0000336 / 5) \cdot (\sqrt{0.01356}) = 7.82 \times 10^{-7}$$

where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds

$$7.82 \times 10^{-7} < 3$$

Standalone SAR test exclusion is applied.