CTL DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
IEC 60335-2-24: 2020	22.117	2199	2022
Category			
HOUS			
Subject	Keywords	Developed by	
Thermal insulation to be encased in and in contact with 5VA polymeric material	- Thermal insulation	ETF 1	

Question

A Case PBA (Printed Board Assembly) is located inside a refrigerating appliance. It is hooked and secured to metal plate through four (4) 1.5 mm² holes. The thermal insulation is located on the opposite side of these holes.

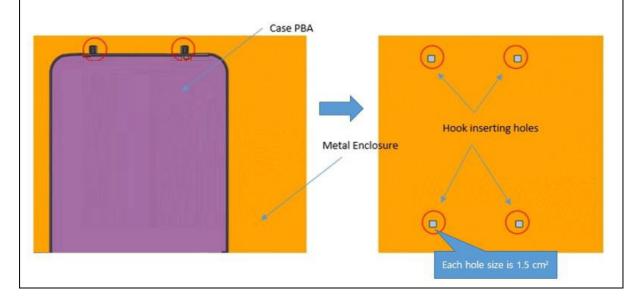
The Case PBA is therefore in contact with thermal insulation through four (4) 1.5 mm² holes that are located within 150 mm between each other.

If this metal plate thickness is not less than 0.2 mm and its melting point temperature is not less than 1 000 °C, which of the following requirements is correct regarding the 5VA rating of the Case PBA:

- The Case PBA shall be 5VA rated because it is in contact with thermal insulation through these holes; OR
- 2. Based on the following excerpt of IEC 60335-2-24:2020, Clause 22.117, the Case PBA does not need to be 5VA rated even it is in contact with thermal insulation through the holes.

Excerpt from Clause 22.117:

A hole or the combined area of holes within 150 mm of each other shall not exceed 25 cm². The total combined area of the holes shall not exceed 125 cm². Holes up to 3 mm² and material that join overlapping metal parts are ignored.





Decision

The Case PBA needs not to be 5VA rated.

Explanatory notes

Justifications of this Decision is based on Clause 22.117:

- The metal plate thickness is not less than 0.2 mm and its melting point temperature is not less than 1 000 °C.
- The area of holes and the location between them comply with the requirement of Clause 22.117.

The full Case PBA is not to be evaluated according to Clause 22.117 but to Clause 30.