

OSM/LUM DECISION SHEET (DSH)

Standard(s) (incl. year)	Subclause(s)	Tracking No.	Year
EN 61048:2006/A1:2016 EN 61049:1993	4 3	DSH 1003A	2019
Category			
LITE			
Subject	Keywords	Developed by	Approved at
Sampling plan	- Capacitance - Self-healing capacitor - 50 capacitors	OSM/LUM-ETF5	2019 ETICS Plenary Meeting
Question			
<p>In § 4 of EN 61048 and in § 3 of EN 61049 rules for the sampling plan are provided. Beside the main rule, the following additional statement is given: "The capacitor with the maximum capacitance per unit surface area shall also be tested if this ratio exceeds that of the maximum capacitance value in the range by 10% or greater. Similarly, the capacitor with the minimum capacitance per unit area shall also be tested if this ratio is less than that of the minimum capacitance value in the range by 10% or greater". Nevertheless, the sampling plan is not well specified when the above case occurs. What is the composition of the final sampling plan for tests?</p>			
Decision			
<p>For the time being, apply the following proposed solution: When the above case occurs, each group referred to in § 11 of EN 61048 or in § 4 of EN 61049 shall contain as nearly as possible equal numbers of capacitors of the highest capacitance and of capacitors with capacitance per unit surface area exceeding that of the maximum capacitance value in the range by 10% or greater. Similarly, each of those groups, shall contain as nearly as possible equal numbers of capacitors of the lowest capacitance and of capacitors with capacitance per unit surface area less than that of the minimum capacitance value in the range by 10% or greater.</p> <p>Example – EN 61048 - § 11 – self-healing capacitor. A sampling of 50 capacitors is required and according to the above decision they shall be split as follows:</p> <ul style="list-style-type: none"> - 12 (13) capacitors of the highest capacitance in the range; - 13 (12) capacitors with the maximum capacitance per unit surface area exceeding that of the maximum value in the range by 10% or greater; - 12 (13) capacitors of the lowest capacitance in the range; - 13 (12) capacitors with capacitance per unit surface area less than that of the minimum capacitance value in the range by 10% or greater. 			
Explanatory notes			
