

SUHNER[®] PLANAR ANTENNAS

GENERAL ENVIRONMENTAL SPECIFICATIONS

Test	IEC	Condition	Duration	Temperature	Cycles	Notes
Low temperature	68-2-1	Test Ab: Cold	16h	-55°C	-	Continous deformation check
High temperature	68-2-2	Test Bb: Dry heat	16h	+85°C	-	Continous deformation check
Temperature change	68-2-14	Test Nb: Change of temperature	2h	-40°C/+55°C	8	Temperature change in 5 minutes intervals overall time: 8h 20min
Vibration	68-2-6	Test Fc: Vibration (sinusoidal)	1h 40 min/axis	-	10 in each of orthogonal directions	Frequency: 5-150Hz, acceleration amplitude: 10m/s ²
Humidity	68-2-30	Test Db: Damp heat, cycles (12+12 hours cycle)	144h	+55°	6	Relative humidity: not less than 95%
Rain	68-2-18	Test Rb: Water	30 min	-	-	10dm ³ /min, spray angle 60°
Solar radiation	68-2-5	Test Sa: Simulated solar radiation ground level	56 days	+40°C	-	Total radiation power: 1.12kW/m ²
Salt spray	68-2-11	Test Ka: Salt spray	96h	+35°C	-	Temperature tolerance 2°C
Ice and snow	-	-	-	-20°C	-	2-3cm ice on radom, VSWR and isolation measurements
Life	-	-	1000h	+100°C	1	Temperature tolerance 2°C
Shock (mechanical)	68-2-27	Test Ea: Shock	6ms	-	3 x 3	Sinus 40g, 12.3 ft/s
Hail	SIA	V 280	-	-	-	Hailstone diameter: 40mm, average hailstone mass: 38.5g hailstone material: PA 6 impact angle: 90° impact speed: 17m/s
Industrial atmosphere	68-2-60	-	240h	-	-	SO ₂ , H ₂ S, Cl ₂
Wind tunnel	-	-	-	-	-	Tested wind speed up to 160 km/h

The Huber+Suhrner Antennas typical fulfil this specifications.

HUBER+SUHNER group is certified according to ISO 9001 and ISO 14001.



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