

Schmid & Partner Engineering AG

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Certificate of conformity / First Article Inspection

| | |
|-----------------------|--|
| Item | SAM Twin Phantom V4.0 |
| Type No | QD 000 P40 CA |
| Series No | TP-1150 and higher |
| Manufacturer / Origin | Untersee Composites Hauptstr. 69 CH-8559 Fruthwilen Switzerland |

Tests

The series production process used allows the limitation to test of first articles. Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

| Test | Requirement | Details | Units tested |
|----------------------|---|--|--------------------------------|
| Shape | Compliance with the geometry according to the CAD model. | IT'IS CAD File (*) | First article, Samples |
| Material thickness | Compliant with the requirements according to the standards | 2mm +/- 0.2mm in specific areas | First article, Samples |
| Material parameters | Dielectric parameters for required frequencies | 200 MHz - 3 GHz Relative permittivity < 5 Loss tangent < 0.05. | Material sample TP 104-5 |
| Material resistivity | The material has been tested to be compatible with the liquids defined in the standards | Liquid type HSL 1800 and others according to the standard. | Pre-series, First article |

Standards

[1] CENELEC EN 50361

[2] IEEE P1528-200x draft 6.5

[3] *IEC PT 62209 draft 0.9

(*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date

28.02.2002

Signature / Stamp

F. Bumbult

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USAGE OF ORGANIC SOLVENTS

Diethylene Glycol Monobuthy Ether (used as basis for HSL1800 and M1800 liquids), as many other organic solvents, is a very effective softener for synthetic materials. These solvents can cause irreparable damage to certain SPEAG products except those which are explicitly declared as compliant with organic solvents.

Compatible Probes:

- ET3DV6
- ES3DV2
- ER3DV6
- H3DV6

The probes shall not be exposed to solvents longer than necessary for the measurements and shall daily after use be cleaned with water and stored dry.

Compatible Phantom:

- SAM V4.0

The phantom shall not be exposed longer than necessary to solvents. After such use, it shall be cleaned with water and dried.

Note: If you intend to use these probes and phantom in acids or solvents other than specified in the standards/guidelines for compliance testing, please contact SPEAG before hand.

Phantoms with Restricted Compatibility:

The solvents will also act as a softener for the fiberglass of phantoms V2 & V3, i.e., V2.0, V3.0, V3.5, V3.6. However, it will not damage the phantom, provided the following precaution is considered: Do not keep the liquid in the phantom overnight, i.e., empty and dry the phantom every evening.

Other Products:

For all other SPEAG products we are forced to waive the warranty if used with organic solvents without the written consent from SPEAG.

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