

Fire protection qualification according to DIN EN 45545-2



In 2021, Würth Elektronik Asia production qualified nine material combinations according to DIN EN 45545-2.

This became necessary due to the massive increase in demand for PCBs for the railway industry.

With a large selection of approved material combinations, our Asian suppliers are now well equipped to meet the high demands of the railway industry.

The DIN EN 45545-2 standard describes the requirements for the fire behaviour of materials and components in the context of fire protection for railway vehicles. The limit values are assigned to three hazard levels (HL).

All qualified Würth Elektronik Asia production materials meet the highest requirements (HL3). This means that we can provide solutions for all areas of application in the railway industry in which, for example, medium and high TG materials as well as materials with high insulation resistance (high CTI value) are used. These can be both safety and non-safety applications.

At the same time, in addition to the already established materials, low-cost combinations have now also been qualified to the usual high Würth Elektronik standard. In this way, we can cover every price segment. **This is unique in this form in the PCB industry!**

No	Base Material	Base Material TG / CTI	Soldermask	Hazard Level		
				HL1	HL2	HL3
1	Shengyi S1000H	TG150/CTI 175~249	Taiyo PSR-4000	✓	✓	✓
2	Shengyi S1000H	TG150/CTI 175~249	Taiyo PSR-2000	✓	✓	✓
3	Shengyi S1000H	TG150/CTI 175~249	China SM SR500	✓	✓	✓
4	Shengyi S1000-2M	TG175/CTI 175~249	Taiyo PSR-4000	✓	✓	✓
5	Shengyi S1150G	TG175/CTI 400~599	Taiyo PSR-4000	✓	✓	✓
6	ITEQ 158TC	TG175/CTI 400~599	Taiyo PSR-4000	✓	✓	✓
7	ITEQ 180ATC	TG175/CTI 175~249	Taiyo PSR-4000	✓	✓	✓
8	Kingboard KB6165F	TG150/CTI 175~249	Taiyo PSR-2000	✓	✓	✓
9	Kingboard KB6165F	TG150/CTI 175~249	Rongda H9100	✓	✓	✓

If you are interested in the individual test reports, please contact us:

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