

G-King® Solder Preform

GK-SPF SERIES

DESCRIPTION

G-King®'s SOLDER PREFORMS SPF Series are precisely manufactured into various shapes using G-King's high-precision cutting machine. Our machine, dies and tools are developed by G-King's independent research and development team to support patented Components, electronic assembly, SMT among others. When applied, G-King's solder preforms are directly assembled with the customer device, if can be used with different soldering applications such as high-temp reflow ovens and by laser induction heating. G-King's preform solders provide many advantages such as greatly improved quality and reliability of the solder joints.

PRODUCT FEATURES

- ◊ Comes in different shapes
- ◊ Wide variety of alloys
- ◊ Flux-coated and non-coated available
- ◊ Wide applications
- ◊ High-precision tolerance

PACKAGING AND STORAGE

G-King®'s SOLDER PREFORM has variety of packaging solution in different applications.

- ◊ Reels packaging
- ◊ Boxes
- ◊ Bottles

Avoid oxidation of this material by keeping the packaging in a room temperature condition 21°C with humidity of less than 45%. It is also critical to keep the packaging closed such as those in boxes and bottles, a nitrogen repackaging will be helpful to remove oxides. Always practice First-IN-First-OUT system when withdrawing stocks from the storage.

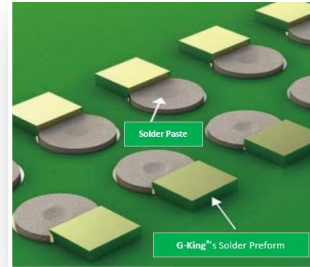


SHELFLIFE

G-King®'s SOLDER PREFORM have 1 year shelflife when stored properly. To keep high reliability applications, it is DISCS suggested to dispose off expired materials when not needed.

APPLICATION

G-King®'s SOLDER PREFORMS are placed together with solder paste to strengthen the joints with its compatibility with your current alloy and flux formulations. This product saves man-hour which results in a more efficient soldering application eliminating manual touch-up and repair process. It also improves the reliability and yield of your PCBA process.



ALLOY MATRIX AND DIMENSIONS

Refer to the following alloy and contact us for the suitable alloy for your process application.

ALLOY CODE	ALLOY COMPOSITION (%)	Classification	SOLIDUS TEMPERATURE (°C)	LIQUIDUS TEMPERATURE (°C)	SPECIFIC GRAVITY (g/cm ³)	ISO ALLOY NO.
SP50	Sn95Pb5	Pb	183	224	7.4	
SP370	Sn63Pb37	Pb	183		8.4	101/ 102
SP950	Sn5Pb95	Pb	300	314	11	123
SPC39010	Sn60Pb39Cu1	Pb	183	190		
SPD320180	Sn50Pb32Cd18	Pb	145			
SPA36020	Sn62Pb36Ag2	Pb	179			
SC7	Sn99.3Cu0.7	Pb-Free	227	228	7.3	401
SCA73	Sn99Cu0.7Ag0.3	Pb-Free	217	226	7.3	501
SCN71	Sn99.2Cu0.7Ni0.1	Pb-Free	217	226	7.3	
SA30	Sn97Ag3	Pb-Free	221	222	7.4	702
SA35	Sn96.5Ag3.5	Pb-Free	221		7.4	703
SAC105	Sn98.5Ag 1Cu0.5	Pb-Free	217	227	7.4	
SAC107	Sn98.3Ag 1Cu0.7	Pb-Free	217	224	7.4	
SAC305	Sn96.5Ag3Cu0.5	Pb-Free	217	219	7.4	711
SAC387	Sn95.5Ag3.8Cu0.7	Pb-Free	217		7.4	713
SB580	Sn42Bi58	Pb-Free	139		8.7	301
SBA3503	Sn64.7Bi35Ag0.3	Pb-Free	178	183	8.7	
SI520	Sn48In52	Pb-Free	119		7.7	601

SOLDER PREFORM DIMENSIONS

Preform Dimension (inch)	Length (mm)	Width (mm)	Thickness (mm)	Tolerance (mm)
0201	0.6	0.3	0.3	(±0.050)
0402	1.0	0.5	0.5	(±0.050)
0603	1.6	0.8	0.8	(±0.050)
0805	2.0	1.2	0.8	(±0.050)
1206	3.2	1.6	1.0	(±0.050)
1210	3.2	2.5	1.0	(±0.050)
1812	4.8	3.2	1.2	(±0.050)
2010	5.0	2.5	1.3	(±0.050)
2512	6.4	3.2	1.5	(±0.050)
201H	0.51	0.25	0.1	(±0.050)
201B	0.6	0.25	0.1	(±0.050)

HEALTH AND SAFETY

Please refer to this product's Safety Data Sheets for more information.

CONTACTS

For Technical and Service support, please send message in G-King website www.gkingsolder.com