

Instrumentation



SGA
Technologies
connecting the future

The logo for SGA Technologies features a stylized green and yellow geometric shape on the left, composed of interconnected lines forming a network. To the right, the text 'SGA' is in a large, bold, yellow font, 'Technologies' is in a smaller green font, and 'connecting the future' is in a small green font below a thin green horizontal line.

Connecting the future

Instrumentation

SGA Technologies has been supplying high quality, high reliability hermetic components and packages since 1969. Customers globally are using SGA devices in applications where performance, quality and reliability are critical. Our high-volume precision manufacturing and testing allows for excellent application in sensitive equipment

Why use SGA Glass to Metal Seals?

- Hermetically sealed, vacuum tight
- Long-Life, reducing replacement time and cost
- Extreme temperature capability <250°C
- High Pressure resistance able to withstand high pressure applications
- Chemically robust construction
- Corrosion resistant
- Material Options allow for new design ease

Electrical & Functionality Characteristics

- Maximum leak rate 1×10^{-9} atm.cc/sec
- High insulation resistance
- High dielectric withstanding voltage
- Operational at high temps over 250 °C
- Can be tested to MIL and JEDEC standards
- CTE matched for excellent functionality

Mechanical Characteristics

- Multi-pin configurations available
- Pins suitable for automated assembly, manual soldering or mating connectors
- Orientation features can be added for PCB mounting or automation
- Small, space saving design
- Plating finishes available for wire bonding

Applications:

- Aircraft sensors
- Mass spectrometers
- LiDAR and GPS assemblies
- Test and measurement devices
- Medical instruments
- Microscopes

Specialists in Hermetics and Plating

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or visit us at www.sgatech.co.uk



Q05599



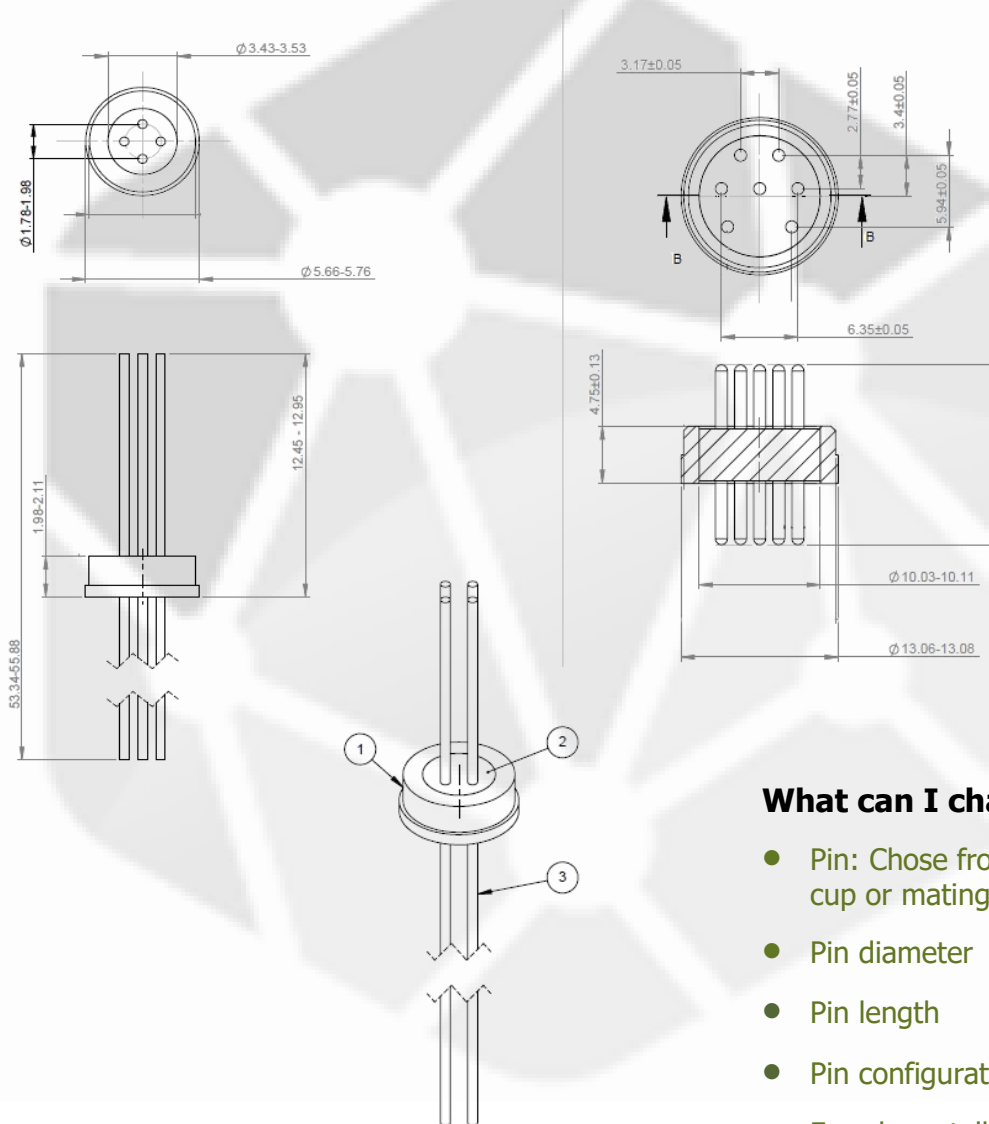
EMS552700



Instrumentation

Mechanical Drawings

Below are some examples of the seals SGA Manufactures for the instrumentation Market. For full datasheet, please contact SGA.



What can I change?

- Pin: Chose from straight, solder cup or mating connector
- Pin diameter
- Pin length
- Pin configuration
- Ferrule metallisation

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Who are we?

SGA Technologies limited

Since 1969, SGA Technologies has been supplying high quality, high reliability hermetic components and packages. Customers globally are using SGA devices in applications where performance, quality and reliability are critical.

Equipment as diverse as satellite communications, military and commercial aircraft, oil drilling platforms, medical systems and scientific equipment are all using SGA products.

In-house Design, Assembly and Test

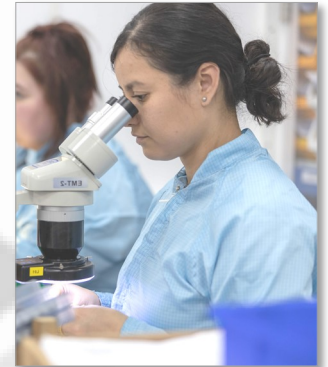
All aspects of design, manufacture and testing take place at SGA, thereby ensuring complete control over quality and reliability. Our engineers oversee all aspects of the process for you. During development and into production, you can be sure of our pedigree and experience.

New Product Development

At SGA we are able to offer a fast, complete design and manufacturing service. Because we control all elements, we can quickly customize every aspect of our design. On numerous occasions we have developed new processes to meet customer's exacting specifications.

We are always looking for new materials, new processes and new ways of bringing technological edge to our designs. We have worked with universities and on funded programs, working alongside leading research institutions to bring the very best performance and lifetime to our designs.

At SGA, whatever the challenge, we have the ability to meet it.



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