

Medical



SGA
Technologies
connecting the future



Connecting the future

Medical

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 lightweight, hermetic components are ideal where gas transfer and sensors are life critical.

Why use SGA Glass to Metal Seals?

- Hermetically sealed, vacuum tight
- Long-life, reducing replacement time and cost
- Extreme temperature capability to -50°C
- High Pressure resistance up to 30Kpsi (2K bar)
- Corrosion resistant
- Material options allow for new design ease
- O_2 Compatibility

Electrical & Functionality Characteristics

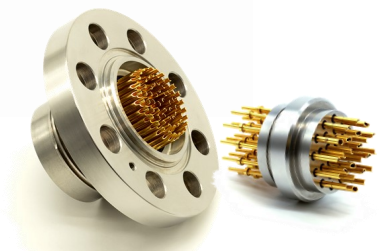
- Maximum leak rate 1×10^{-9} atm.cc/sec
- High insulation resistance
- High Dielectric Withstanding Voltage
- CTE matched for excellent functionality
- Excellent Thermal Shock characteristics
- Can operate at low temps for Cryogenic applications

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:

- Hermetic encapsulation of LEDs for oral medicine instruments
- Joints and prostheses
- Blood pressure measurement
- Hermetic housing for laser treatments
- Endoscopy
- Hearing devices



Specialists in Hermetics and Plating

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or visit us at www.sgatech.co.uk



Q05599



EMS552700



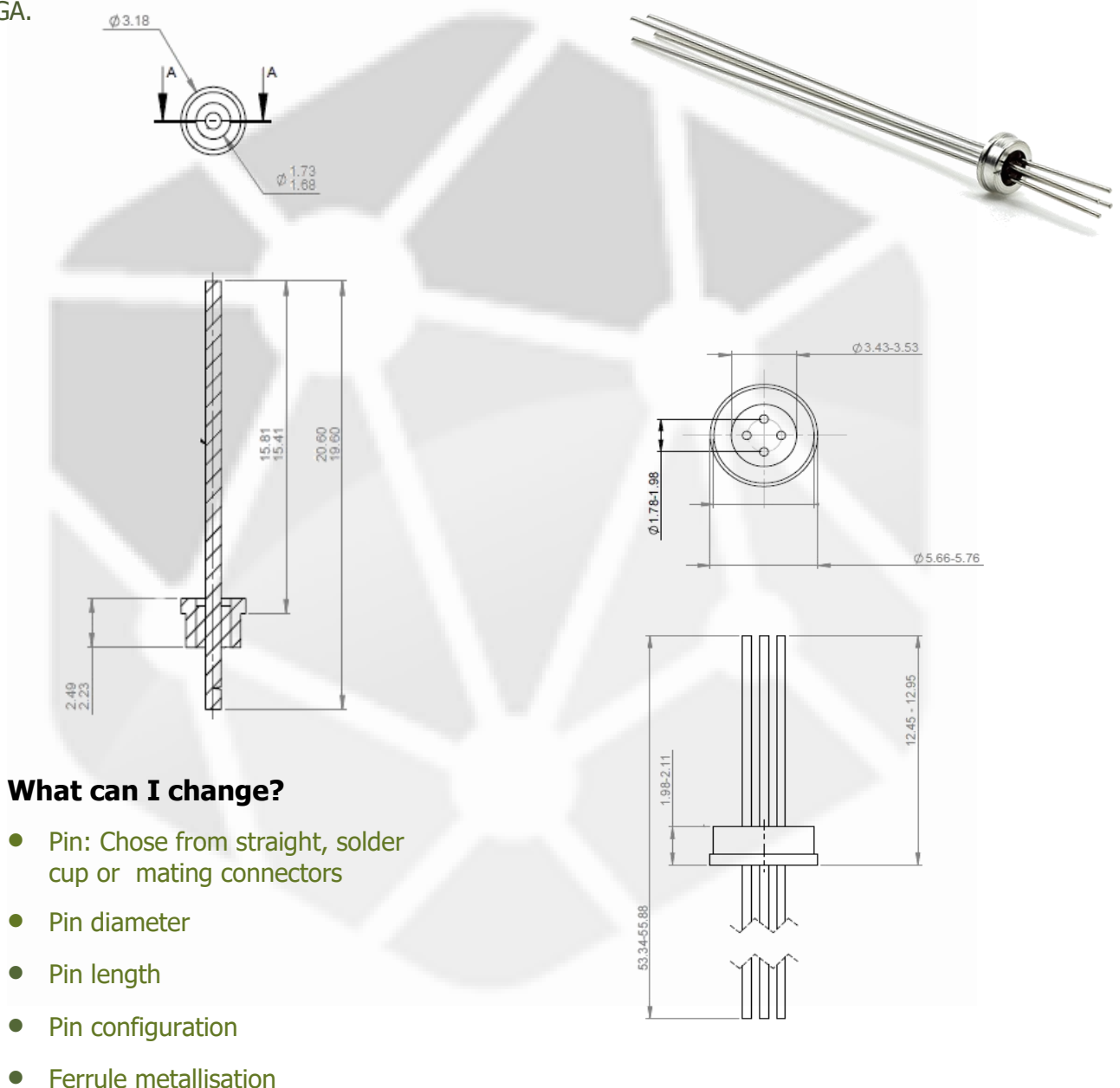
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DATASHEET

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Mechanical Drawings

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



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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

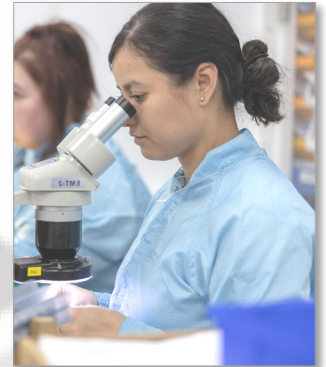
All aspects of design, manufacture and testing take place at SGA, thereby ensuring complete control over quality and reliability. Our engineers oversee all aspects of the process for you. During development and into production, you can be sure of our pedigree and experience.

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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