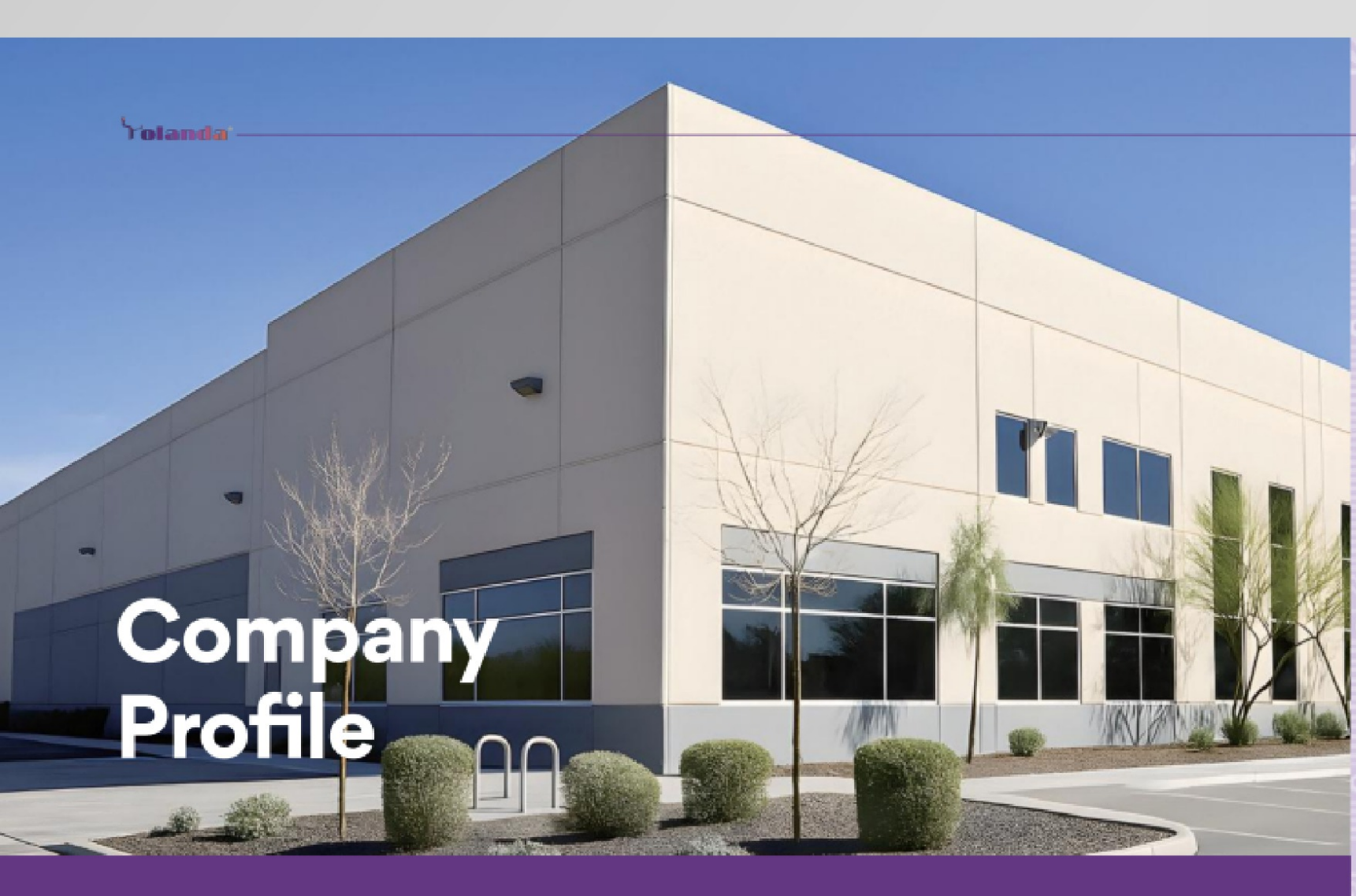
No. 344, Sanlin Road, Pudong New Area, 200124,Shanghai,China
+86 180 1911 9712
+86 21 5589 5859
sales@yolandanm.com
www.yolandanm.com

YOLANDA SHIELDS, SIGNAL NEVER YIELDS

Shanghai Yolanda
New Material Co., Ltd.



Company Profile

Shanghai Yolanda New Material Co., Ltd. is a dynamic company at the forefront of the high-performance electronic components industry, born from a shared vision to bridge innovation gaps in modern electronics. Our core focus lies in developing and supplying high-performance, miniaturized electronic components—including TO package, glass-to-metal seal housing, feedthrough and connector—tailored for emerging technology sectors such as 5G, medical electronics, industrial automation.

What sets us apart is our unwavering commitment to agile innovation and customer-centric design. Backed by a team with many years of combined expertise in semiconductor engineering and materials science, we prioritize rapid prototyping and iterative development, ensuring our components seamlessly adapt to the evolving demands of fast-paced technology ecosystems. These key attributes that have already fostered partnerships with forward-thinking technology startups and niche manufacturers.

Beyond product excellence, we take pride in our culture of transparent collaboration. We engage deeply with clients to understand their unique technical challenges, co-developing custom component solutions that not only reduce production costs but also accelerate time-to-market. As we expand our reach, our mission remains steadfast: to emerge as the go-to partner for innovators, empowering the next generation of electronic devices with reliable, cutting-edge components.

200+	70+	20+
Professionals	Specialized engineers	Backed patents

CERTIFICATE

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO45001

TO Package

Description

This series of TO package provides the mechanical foundation for mounting electronic and optical components such as semiconductors, laser diodes, sensors, and simple electronic circuits, while providing electrical signals to the packaged component through the leads for high-speed data transmission. The glass-sealed TO housings provide reliable, permanent protection of the package components from the environment and are customized to meet customer requirements.

5G Communication

Medical Laser Equipment

Precision Testing Instrument

Spectrometer

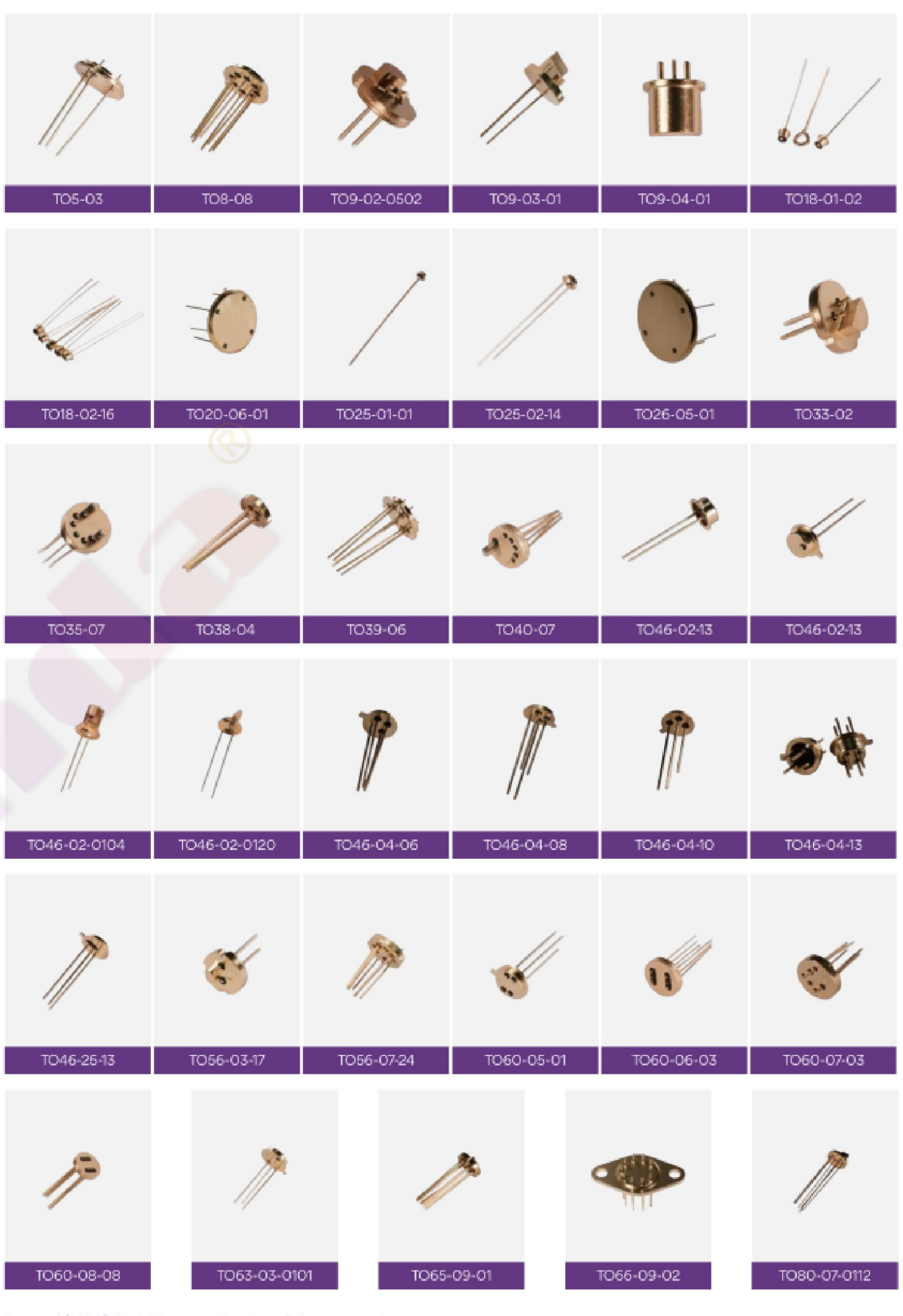
Aerospace

Main Performance Indicators

Items	Indicators
Insulation Resistance	≥1000MΩ(100VDC)
Leak Rate	≤1*10-3Pa.cm3/s (He)
Operating Temperature Range	-65°C ~ +165°C
Solderability	Flawless tinning on leads with over 95% surface area coated
Salt Spray	5% sodium chloride (nacl), 24 hours, surface rust area less than 5% of total base area
Bond Strength	Gold wire 25μm, tensile force > 3gf
Lead Fatigue	Bend cycling test: 90° ±5° bending angle, 3 cycles; Leak rate ≤ 1*10-3pa.cm3/s(he); No lead breakage or looseness

Materials and Surface Coating

Items	Material	Surface Coating
Housing	SPCC, Kovar	Electroplated Nickel/Chemical Plated Nickel + Gold Plating/Silver Plating
Lead	Kovar, FeNi Alloy	Electroplated Nickel/Chemical Plated Nickel + Gold Plating/Silver Plating
Insulating Medium	Glass	/
Others	Weldable aluminum oxide and aluminum nitride ceramic substrates	



Core models highlighted. More specs & custom solutions on request.

DC Series Feedthrough

Description

This series of products are single-core glass-to-metal seal gas-tight components with non-50Ω characteristic impedance. They are designed to function in environments that require gas-tight sealing, making them particularly suitable for transmitting power signals and control signals between modules or between modules and components where gas-tight integrity is essential. As a critical component for sealed assemblies, these devices facilitate various connection methods including gold wire bonding, soldering, and mating connection. This series of products can be custom-made based on customer requirements.

Main Performance Indicators

Items	Indicators	Materials and Surface Coating		
Insulation Resistance	≥1000MΩ(500VDC)	Items	Material	Surface Coating
Operating Temperature Range	-55°C~+125°C	Housing	Kovar alloy/SPCC	Nickel and gold plated
Leak Rate	$\le 1*10^{-3}$Pa cm^3/s(He)	Contact	Kovar alloy/Alloy 50	Nickel and gold plated
Salt Spray	The duration is≥24 hours (which can be extended to 48h or 96h based on customer requirements)	Insulating Medium	Glass	/

Measuring Equipment

Industrial Automation

DC3020

DC4020

DC5020

Core models highlighted. More specs & custom solutions on request.

Micro-Rectangular Feedthrough

Description

This series of products are multi-core glass-to-metal seal components with non-50Ω characteristic impedance. They are designed to function in environments that require gas-tight sealing, making them particularly suitable for transmitting power signals and control signals between modules or between modules and components where gas-tight integrity is essential. As a critical component for sealed assemblies, these devices facilitate various connection methods including gold wire bonding, soldering, and mating connection. This series of products can be custom-made based on customer requirements.

Main Performance Indicators

Items	Indicators	Materials and Surface Coating		
Insulation Resistance	≥1000MΩ(500VDC)	Items	Material	Surface Coating
Operating Temperature Range	-55°C~+125°C	Housing	Kovar alloy	Nickel and gold plated
Leak Rate	$\le 1*10^{-3}$Pa. cm/s(He)	Contact	Kovar alloy	Nickel and gold plated
Salt Spray	The duration is≥24 hours (which can be extended to 48h or 96h based on customer requirements)	Insulating Medium	Glass	/

5G Communication

Medical Laser Equipment

2YLDX27-0.6-10-1.27-4.7

YLDX2-1.0-032-4.5-9.5

Core models highlighted. More specs & custom solutions on request.

RF Series Feedthrough

Description

This series of products are sing-core glass-to-metal seal gas-tight components with a characteristic impedance of 50Ω. They are designed to function in environments that require gas-tight sealing, making them particularly suitable for transmitting RF signals and HF signals between modules or between modules and components where gas-tight integrity is essential. Asa critical component for sealed assemblies, these devices facilitate various connection methods including gold wire bonding, soldering, and mating connection. This series of products can be custom-made based on customer requirements.

RF3030

Main Performance Indicators

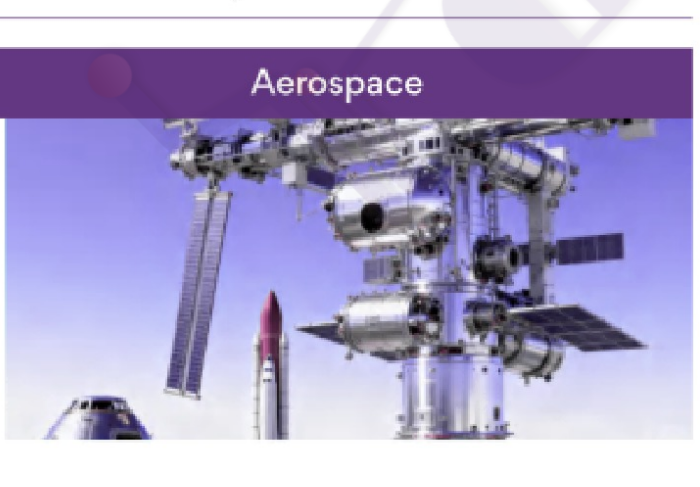
Items	Indicators
Insulation Resistance	≥5000MΩ(500VDC)
Dielectric Withstand Voltage	500V
Leak Rate	$\le 1*10^{-3}$Pa.cm^3/s (He)
Frequency Range	DC-3.5/10/12/14/15/20/25/30/35/45/54/60GHZ
Operating Temperature Range	-65°C~+165°C
Characteristic Impedance	50Ω

Materials and Surface Coating

Items	Material	Surface Coating
Housing	Kovar	Nickel plated Gold plated
Contacts	Kovar	
Insulating Medium	Glass	/

Measuring Equipment

Aerospace



Core models highlighted. More specs & custom solutions on request.

J30J Series

Description

This series of products is a single-hole glass bead sintered sealing socket, the contact pitch is 1.27mm, row pitch is 1.1mm, the socket is gold-plated, the medium is sealed by glass sintering, good Leak Rate, and has a sealing interface to realize the sealing of the cavity, which can be used in the whole system that requires high sealing requirements, and the tail termination is adapted to match with the conductor core cross-sectional area of 0.1-0.15mm², and the tail termination can also be directly soldered to the printed circuit board. Tail termination can also be directly soldered to the printed circuit board. The specifications are 5, 9, 13, 15, 21, 25, 31, 37, 51, 74 cores. This series of products can be customized according to customer requirements.

J30J-5ZKN

Main Performance Indicators

Items	Indicators	Items	Indicators	Material and Surface Coating		
Insulation Resistance	≥5000MΩ (500VDC)	Operating Temperature Range	-55°C~+125°C	Material		Surface Coating
Dielectric Withstand Voltage	300V r.m.s	Contact Resistance	≤20mΩ	Housing	Kovar	Nickel plated
Leak Rate	$\le 1*10^{-3}$Pa.cm^3/s(He)	Vibration	Frequency 10~2000hz Acceleration 196m/s^2	Contacts	Kovar	Gold plated
Rated Current	3A	Shock	490m/s^{2}11ms, Rear peak sawtooth wave, 2.68m/s			
Salt Spray	≥ 48 hours (96h on request)	Mechanical Life	500 times	Insulating Medium	Glass	/

J30J-5ZKN

J30J-9ZKS

J30JSG series

J30JSG-15ZKS57B

J30JSG-21ZKS

J30JSG-31ZKH

Core models highlighted. More specs & custom solutions on request.

J63A Series

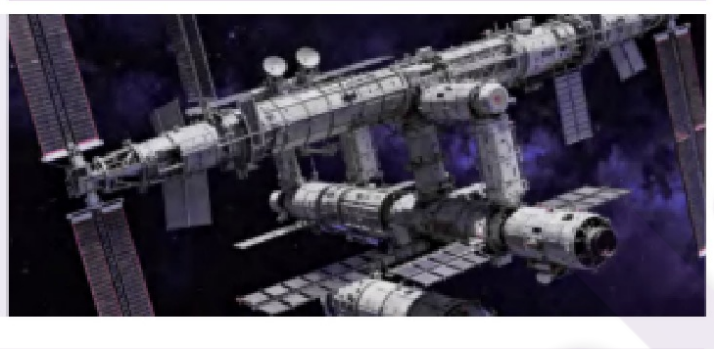
Description

This series of products is a single-hole glass bead sintered sealing socket, the contact pitch is 0.635mm, the socket is gold-plated. The media is sealed by glass sintering, which has good air tightness, and has the function of sealing interface to realize the sealing of the cavity, and can be used in the whole system which requires high sealing requirements, the specifications have 6 specifications, including 9, 15, 21, 25, 31, and 37 cores. This series of products can be customized according to customer requirements.

J63ASG-2S2-037

Oil Drilling Platform

Aerospace



Main Performance Indicators

Items	Indicator	Items	Indicators	Material and Surface Coating		
Insulation Resistance	≥5000MΩ (500VDC)	Operating Temperature Range	-55°C~+125°C	Material		Surface Coating
Dielectric Withstand Voltage	300V r.m.s	Contact Resistance	≤30mΩ	Housing	Kovar	Nickel plated
Leak Rate	$\le 1*10^{-3}$Pa.cm^3/s(He)	Vibration	Frequency 10~2000hz Acceleration 196m/s^2	Contacts	Kovar	Gold plated
Rated Current	1A	Shock	735m/s^{2}11ms, Rear peak sawtooth wave, 2.19m/s			
Salt Spray	≥ 48 hours (96h on request)	Mechanical Life	500 times	Insulating Medium	Glass	/

Core models highlighted. More specs & custom solutions on request.

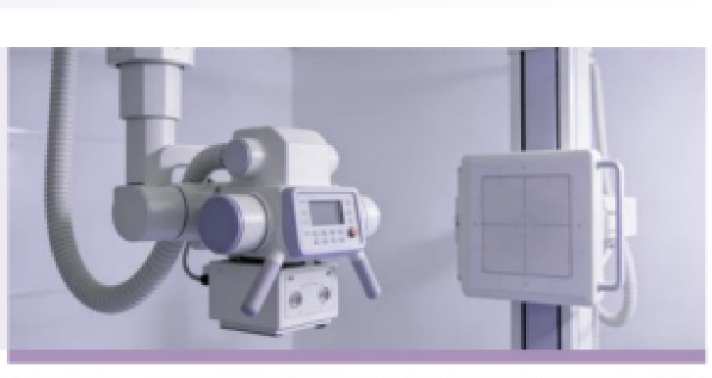
J66 Series

Description

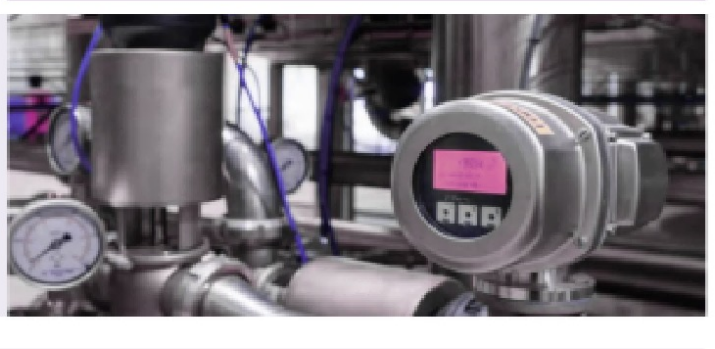
This series of products is a single-hole glass bead sintered sealing socket, the use of metal shell, inner conductor, glass three high-temperature sealing structure, pitch 0.9mm, can be adapted to the use of the environment with the requirements of the gas sealing gas sealing: the leakage rate of < $1*10^{-3}$Pa.cm^3/s (He), specifications 5, 9, 11, 13, 15, 21, 25. 31, 37, 51, 66 core 11 kinds of specifications. This series of products can be customized according to customer requirements.

J66SG-25ZKH4

Medical Laser Equipment



Environmental Monitoring Instruments

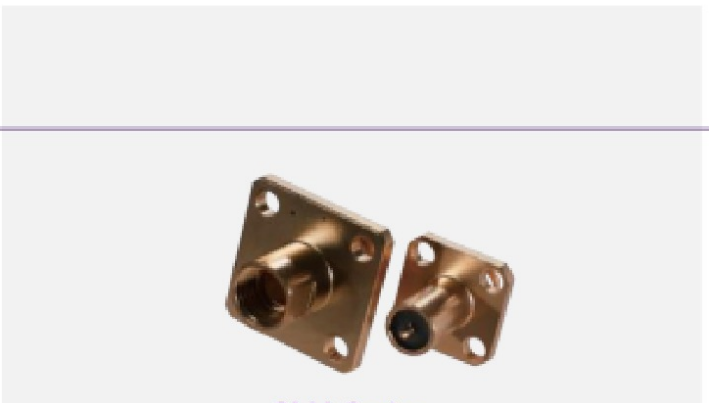


Main Performance Indicators

Items	Indicators	Items	Indicators	Material and Surface Coating		
Insulation Resistance	≥5000MΩ (500VDC)	Operating Temperature Range	-55°C~+125°C	Material		Surface Coating
Dielectric Withstand Voltage	300V r.m.s	Contact Resistance	≤30mΩ	Housing	Kovar	Nickel plated
Leak Rate	$\le 1*10^{-3}$Pa.cm^3/s(He)	Vibration	Frequency 10~2000hz Acceleration 196m/s^2	Contacts	Kovar	Gold plated
Rated Current	1A	Shock	490m/s^{2}11ms, Rear peak sawtooth wave, 2.68m/s			
Salt Spray	≥ 48 hours (96h on request)	Mechanical Life	500 times	Insulating Medium	Glass	/

Core models highlighted. More specs & custom solutions on request.

SMA Series

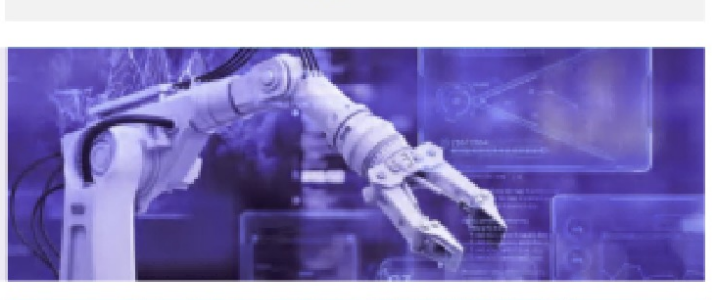

SMA Series

SMA(G)-75KF3H1

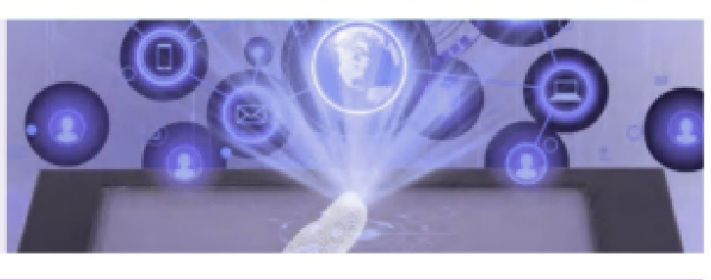
Description

SMA RF coaxial connectors are the most widely used RF electrical connectors with small size, wide bandwidth, excellent mechanical and electrical performance. SMA series connectors have an outer conductor ID of 4.13mm, a characteristic impedance of 50Ω, and a connection mechanism of 1/4-36UNS-2 inch thread. This series of products can be customized according to customer requirements.

Industrial Automation



Iot Gateway



Main Performance Indicators

Items	Indicators
Insulation Resistance	≥5000MΩ(500VDC)
Dielectric Withstand Voltage	1000V(50Hz,AC RMS,sea level)
Frequency Range	DC-18GHz
Salt Spray	≥48 hours (96h according to customer requirements)
Leak Rate	$\le 1.013*10^{-3}$Pa.Cm^3/s(He)
Operating Temperature Range	-65°C~+165°C
Characteristic Impedance	50Ω
Mechanical Life	500 times

Materials and Surface Coating

Items	Material	Surface Coating
Outer Conductor	Kovar/Stainless	Nickel plated Gold plated/Passivation
Dielectric Body	Glass	/
Inner Conductor	Kovar/FeNi Alloy	Nickel plated Gold plated

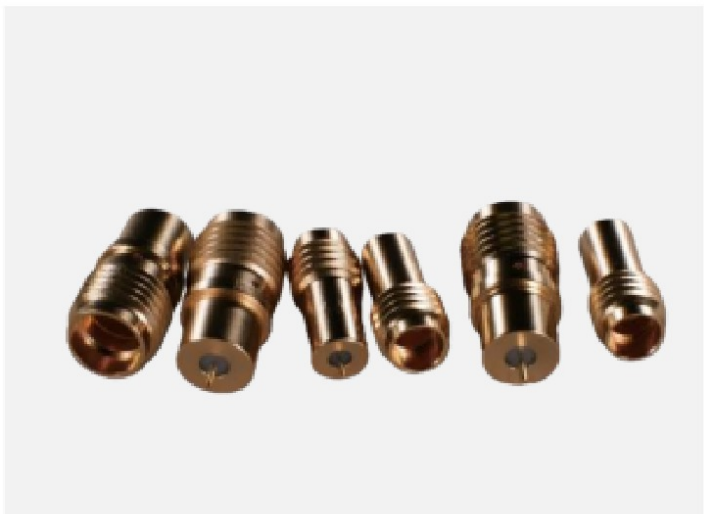
Core models highlighted. More specs & custom solutions on request.

SMP Series

Description

SMP series RF coaxial connector is a kind of ultra-compact push-in connector, which has the advantages of small size, high operating frequency, fast connection and separation, strong vibration resistance, etc., and has certain axial and radial tolerance compensation ability.

According to the connection mechanism is divided into 3 kinds: Full detent, Limited detent and Smooth bore. This series of products can be customized according to customer requirements.


SMP Series

Microwave RF Components

Medical Electronics

Main Performance Indicators

Items	Indicators		
Insulation Resistance	≥5000MΩ(500VDC)		
Dielectric Withstand Voltage	750V(50Hz,AC RMS,sea level)		
Frequency Range	DC-35GHz		
Salt Spray	≥48 hours (96h according to customer requirements)		
Leak Rate	$\le 1.013*10^{-3}$Pa.cm^3/s(He)		
Operating Temperature Range	-65°C~+165°C		
Characteristic Impedance	50Ω		
Interface Form	Smooth Bore	Limited Detent	Full Detent
Mechanical Life	1000 times	500 times	100 times

Materials and Surface Coating

Items	Material	Surface Coating
Outer Conductor	Kovar/Stainless	Nickel plated Gold plated/Passivation
Dielectric Body	Glass	/
Inner Conductor	Kovar/FeNi Alloy	Nickel plated Gold plated

Core models highlighted. More specs & custom solutions on request.

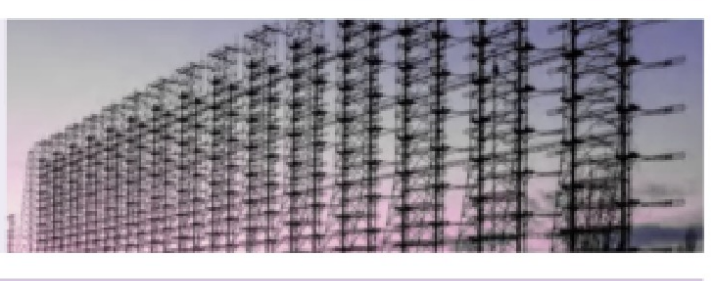
2.92 Series

Description

2.92 series is a precision millimeter wave connector developed on the basis of SMA, which can be interchanged with SMA series products. The inner diameter of the outer conductor is 2.92mm, the characteristic impedance is 50Ω, and the connection mechanism is 1/4-36UNS-2 inch thread RF coaxial connector. Adopting air interface, it has the advantages of small size, light weight, high frequency of use, reliable connection and so on. This series of products can be customized according to customer requirements.

5G Communication

Radar System



Main Performance Indicators

Items	Indicators
Insulation Resistance	≥5000MΩ(500VDC)
Dielectric Withstand Voltage	750V(50Hz,AC RMS,sea level)
Frequency Range	DC-18GHz
Salt Spray	≥48 hours (96 hours according to customer requirements)
Leak Rate	$\le 1.013*10^{-3}$Pa.cm^3/s(He)
Operating Temperature Range	-65°C~+165°C
Characteristic Impedance	50Ω
Mechanical Life	500 times

Materials and Surface Coating

Items	Material	Surface Coating
Outer Conductor	Kovar	Nickel Plated Gold Plated
Dielectric Body	Glass	/
Inner Conductor	Kovar	Nickel Plated Gold Plated

Core models highlighted. More specs & custom solutions on request.

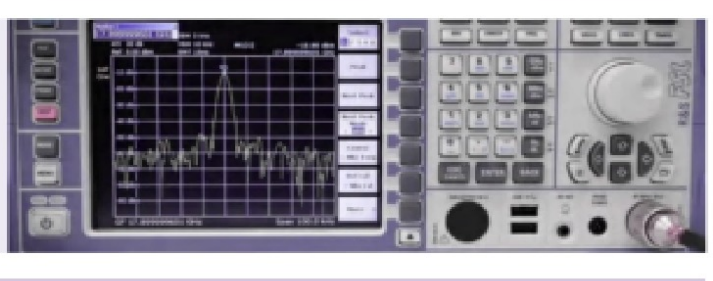
N Series

Description

N series products in accordance with the U.S. military standard MIL-C-39012 development and production of a small and medium power connectors with threaded connection mechanism . This series of products can be interchanged with the international N series RF coaxial connector corresponding products. The series products can be customized according to customer requirements.

Radio Communication

Measuring Equipment



Main Performance Indicators

Items	Indicators
Insulation Resistance	≥5000MΩ(500VDC)
Dielectric Withstand Voltage	1500V(50Hz,AC RMS,sea level)
Frequency Rrange	DC-11GHz
Salt spray	≥48 hours (96 hours according to customer requirements)
Leak Rate	$\le 1.013*10^{-3}$Pa.cm^3/s(He)
Operating Temperature Range	-65°C~+165°C
Characteristic Impedance	50Ω
Mechanical Life	500 times

Materials and Surface Coating

Items	Material	Surface Coating
Outer Conductor	Kovar/Stainless	Nickel Plated Gold Plated/Passivation
Dielectric Body	Glass	/
Inner Conductor	Kovar/FeNi Alloy	Nickel Plated Gold Plated

Core models highlighted. More specs & custom solutions on request.

Glass-to-Metal Seal Housing

Description

This series of products is the use of metal as a shell or base, the chip is mounted directly or through the substrate in the shell or base, the lead through the metal shell or base using the glass-to-metal sealing technology of a form of electronic encapsulation; encapsulation of the metal tube shell is one of the important components of microelectronics encapsulation process, this series of products are customized to meet the customer's requirements.

Aerospace

Petrochemical

Medical

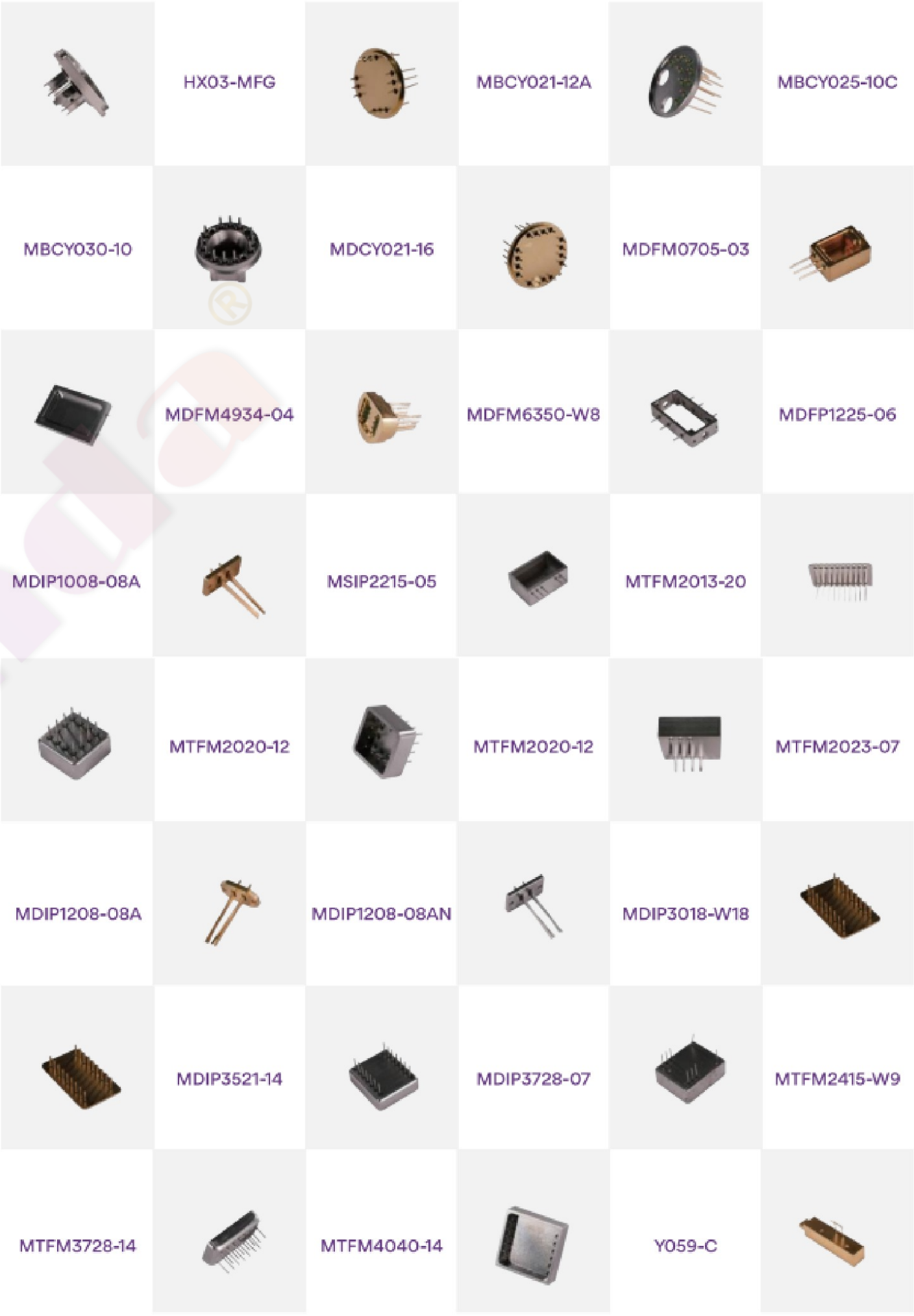
Automotive

Main Performance Indicators

Items	Indicators
Insulation Resistance	$\ge 1*10^{10}\Omega$(500VDC)
Operating Temperature Range	-55°C~+125°C
Leak Rate	$\le 1.013*10^{-3}$Pa.Cm^3/s(He)
Salt Spray	The duration is≥24 hours (which can be extended to 48 hours or 96 hours based on customer requirements)
Bond Strength	Gold wire of 25μm diameter,with tensile force≥3 gf

Materials and Surface Coating

Items	Material	Surface Coating
Housing	Kovar, #10 Steel Stainless Steel	Nickel plating & gold plating, To be chosen based on customer requirements
Lead	Kovar, Fe-nickel Alloy Copper Core Composite	
Insulating Medium	Glass	/



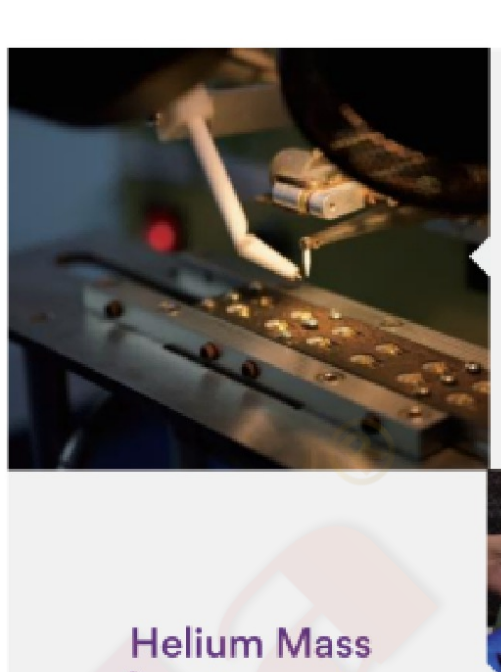
Core models highlighted. More specs & custom solutions on request.

Testing Equipment

Yolanda has complete research, production and testing equipment. These include chain sintering furnaces, welding furnaces, an in-house plating department, a helium mass spectrometer leak detector, X-ray plating thickness gauge, vector network analyzer, high vacuum oven, insulation resistance meter, thermal shock chamber, sandblasting equipment, and spot welding machine, etc.

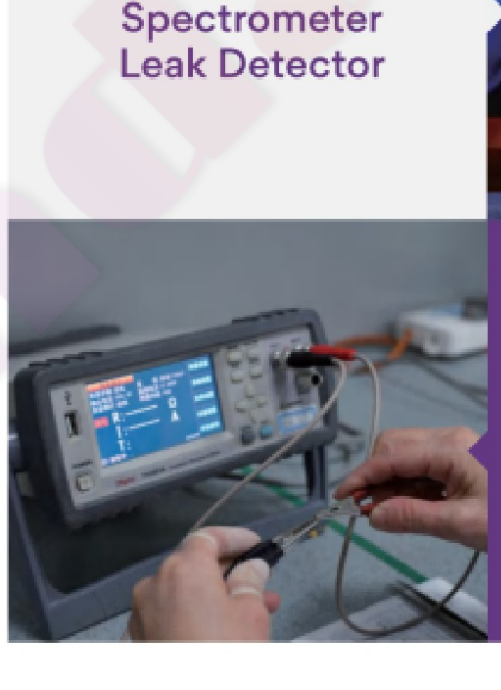
Thermal Shock Chamber

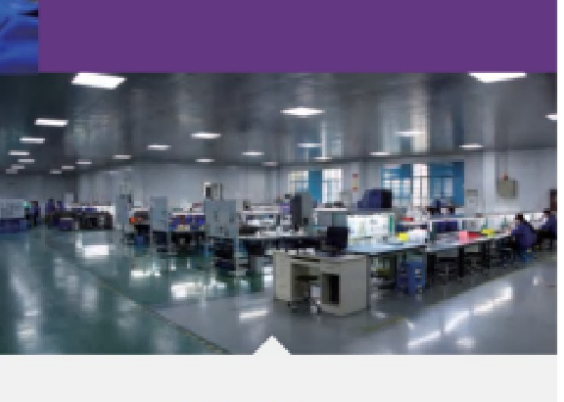
Salt Spray Chamber


Bonding Test

Helium Mass Spectrometer Leak Detector

X-ray Plating Thickness Gauge


Insulation Resistance Meter


Workshop

Automated Optical Inspection