

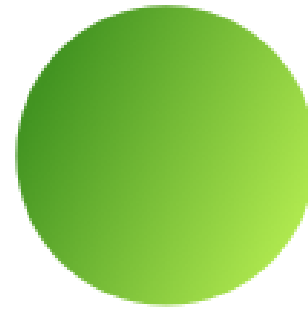
# Package Applications & Products

## Package Applications

Optispac specializes in various packages manufacturing with strong R&D, efficient operation and excellent services. Simplicity, safety and easy to feed in are our principle for design. Pack your dreams with our packages!



Opti-telecommunication



## Package Materials

Material	Density	Thermal Conductive (w/mk)	Expansion Coefficient (ppm/°C)	Cost	Manufacturing Availability
4J29	8.2	17	5.8	Mild	Mild
CR steel	7.8	50-76	12-14	Low	Low
Free Oxygen Copper	8.9	398	17.8	Mild	Mild
Tungsten Alloy (8515)	16.4	200	7.2	High	High
Stainless Steel	7.93	17	17.7	Mild	Mild
AlSiC (Al68)	3	175	7.2	Expensive	Expensive
AlSi(Al30)	2.4	120	7	Expensive	Expensive
Al2O3 Ceramic	3.6	17	6.7	Expensive	Expensive

## Leads

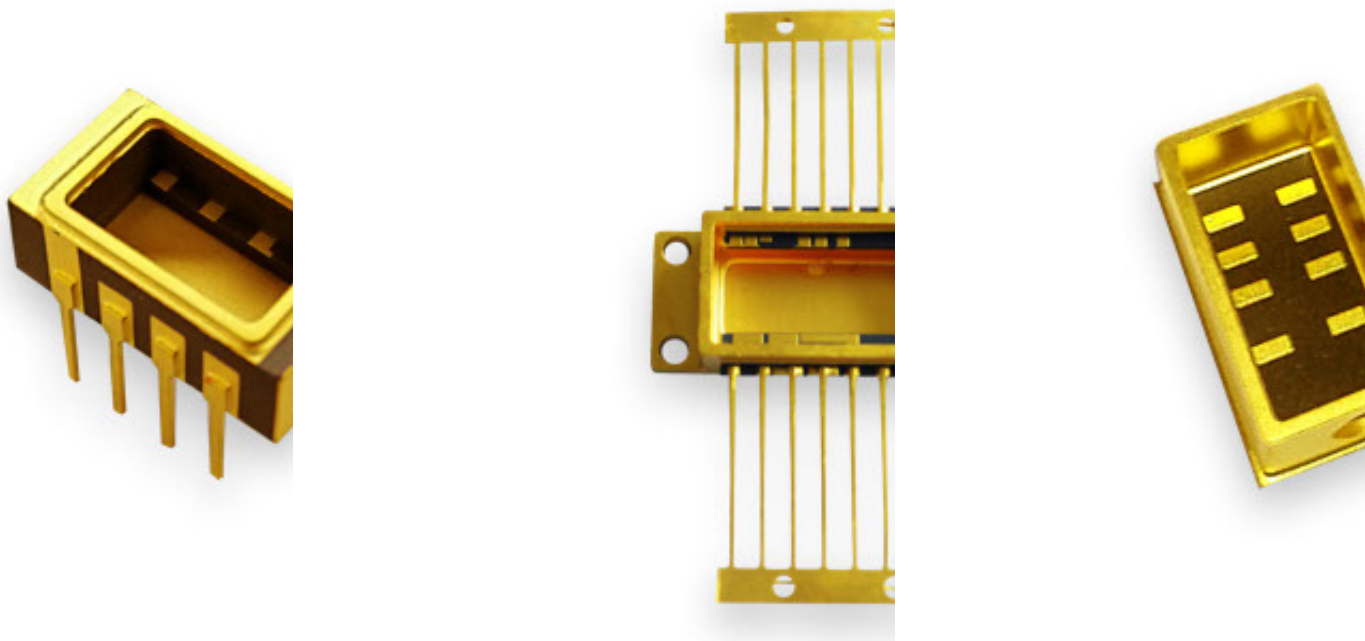
Materials	Spec	Max current (A)
4J29	φ0.45	1
	φ0.76	3.2
	φ1.00	5
	φ1.50	10
	0.25×0.38	0.66
4J50	φ0.45	1
	φ0.76	3.5
	φ1.00	5.5
	φ1.50	11
Copper core (4J50)	φ0.76	4.3
	φ1.00	7.5
	φ1.50	16.8

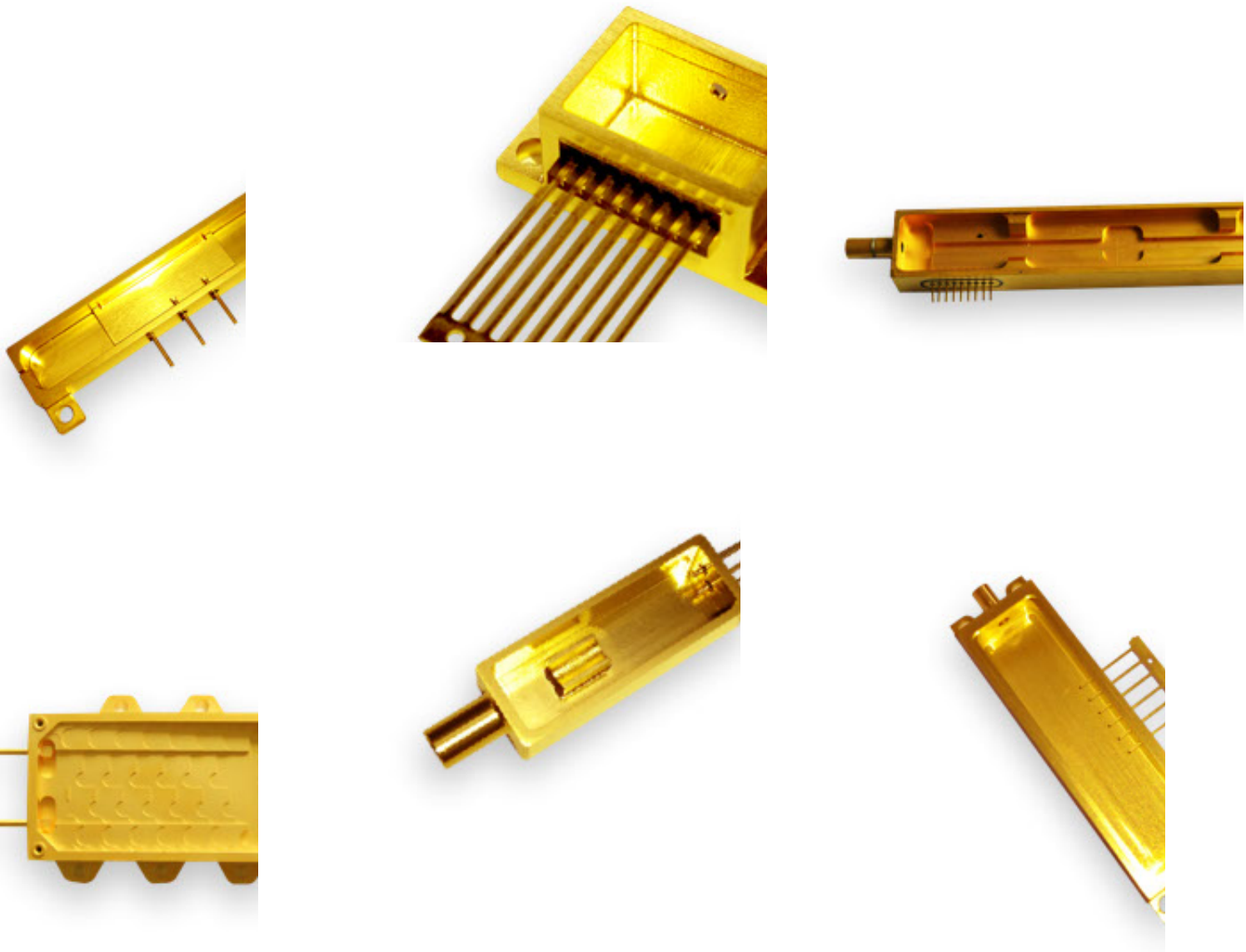
# Fiber Optics Packages

## Application

The application of fiber optics packages are for optical communication, auto electronics, pharmaceutical and etc, including optical transmitters and receivers, wave lockers, modulators, attenuator, WSS, optical detectors, Pump laser, Industrial high power laser.

<b>Frequency</b>		DC 40GHz
<b>Window</b>	<b>Wave length</b>	800-1650nm
	<b>Transmission</b>	≥99% (2 sides coating )
	<b>Performance</b>	Infrared; visible ligh
<b>Insulation resistance</b>		≥1x10 <sup>10</sup> Ω(500V •DC)
<b>Hermeticity</b>		≤ 1x10 <sup>-3</sup> Pa•cm <sup>3</sup> /s(He)



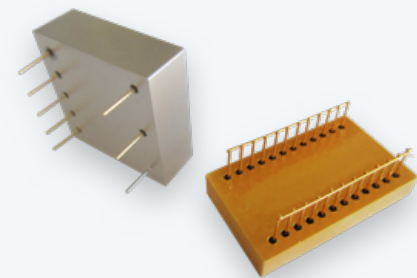
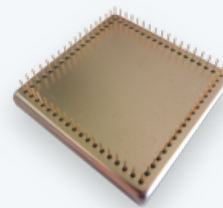
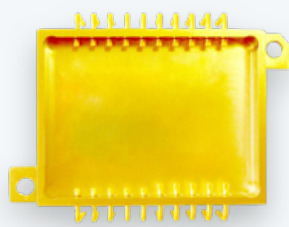


# HIC Packages

## Application

The application of HIC packages are for auto, pharmaceutical, defense, aerospace and aviation, including various high reliable powers supply, wave filters, power amplifiers, pulse width modulators, angle converters and pressure sensors.

<b>Electric current</b>	Max 100A
<b>Voltage</b>	Max DC3000V
<b>Space between pins</b>	Min 1.27mm
<b>Hermeticity</b>	$\leq 1 \times 10^{-3} \text{Pa} \cdot \text{cm}^3/\text{s}(\text{He})$
<b>Insulation resistance</b>	$\geq 1 \times 10^{10} \Omega(500\text{V} \cdot \text{DC})$



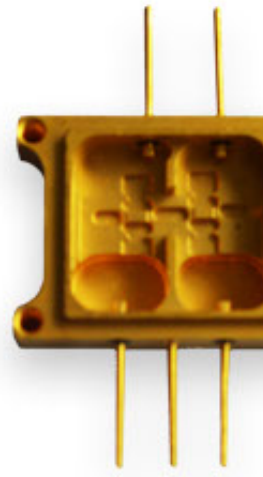
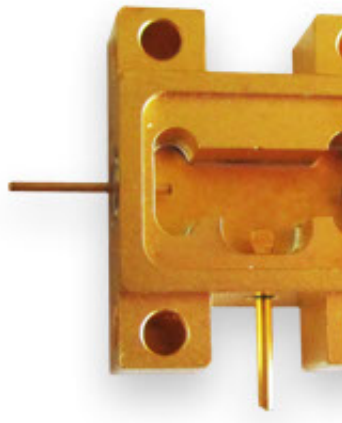
## Microwave Packages

### Application

T/R subassembly, MPM, application to aerospace, aviation, navy and civil vessels

<b>Frequency</b>	DC 40GHz
<b>Hermeticity</b>	$\leq 1 \times 10^{-3} \text{Pa} \cdot \text{cm}^3/\text{s}(\text{He})$
<b>Insulation resistance</b>	$\geq 1 \times 10^{10} \Omega(500\text{V} \cdot \text{DC})$
<b>Anti-salty</b>	Cycling test: 24h-48h





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