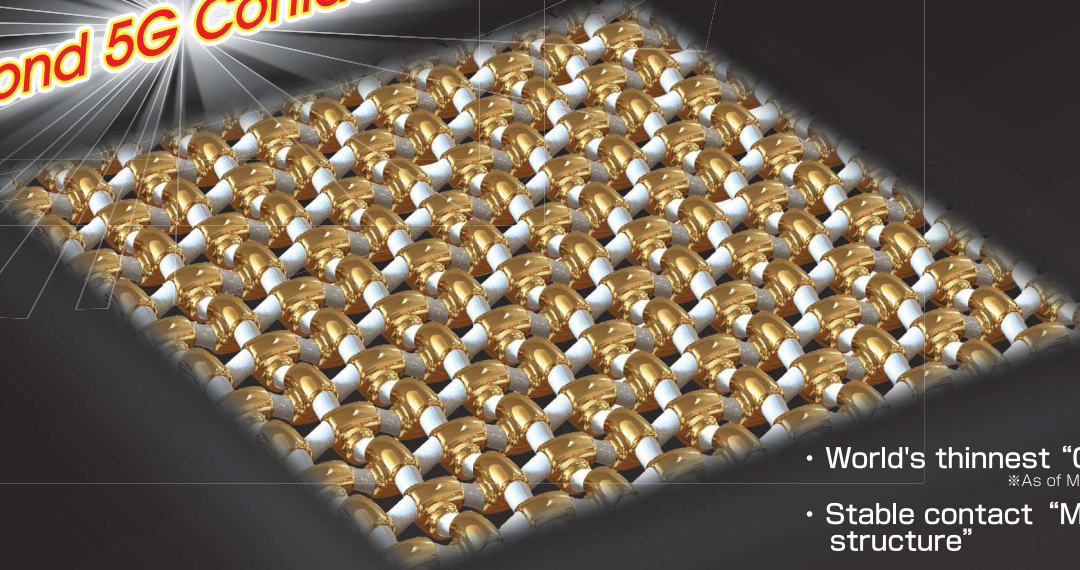


# Union High Speed Sheet™

## World's thinnest "0.05mm" Sheet Contact

Union High Speed Sheet™ "UHSS" is capable of "200Gbps" next-generation high-speed transmission.

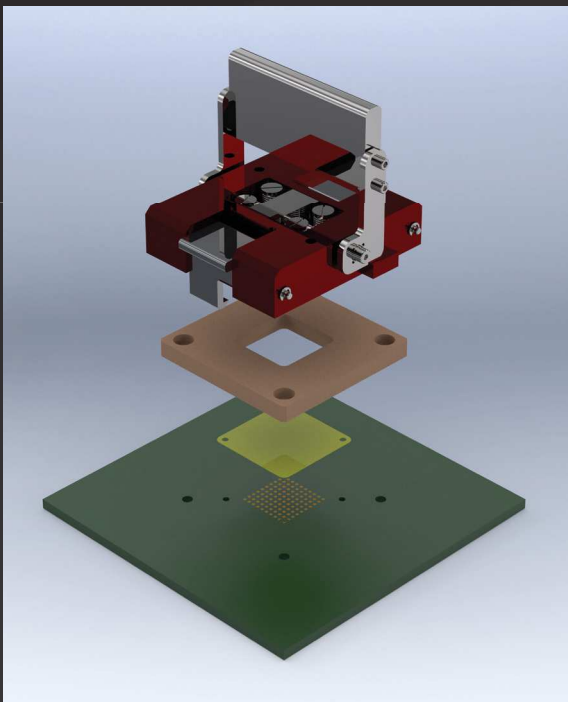
**Beyond 5G Contactor**



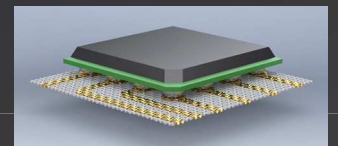
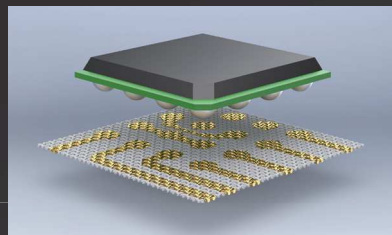
- World's thinnest "0.05mm"  
※ As of May 2020, based on our research
- Stable contact "Multi-point contact structure"
- High speed transmission "200Gbps"  
※ Patent applied

### Usage examples

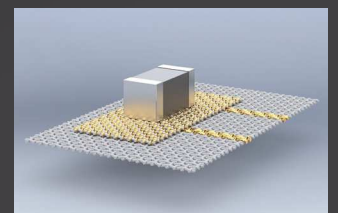
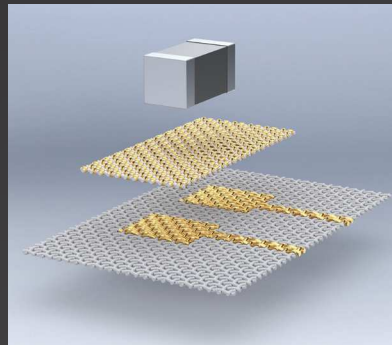
#### ■ Various test sockets



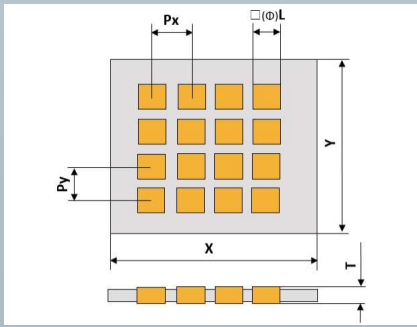
#### ■ Various package tests and wiring boards



#### ■ Microelectronic devices and interposers



# Product Dimension



## Dimensional specifications

Pitch (Px)	0.08mm ~
Pitch (Py)	0.08mm ~
Thickness (T)	0.05mm ~
Electrode size (L)	□0.06mm ~
Product size (X)	5.00mm ~
Product size (Y)	5.00mm ~

# Characteristics

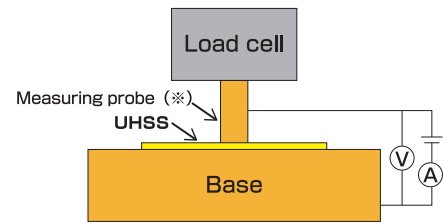
## Performance specifications

Allowable current	3.0 A / Dot (□0.06mm)
Contact resistance	10mΩ or less than 10mΩ(1mm <sup>2</sup> )
Insulation resistance	1000MΩ or more than 1000MΩ(DC100V)
Withstand voltage	100V(AC)
Operating temperature range	-40°C ~ 150°C
Durability	50 thousand or more than 50 thousand times
Contact force	10 N/mm <sup>2</sup>

※Above data is effective on the minimum pitch by 0.08 mm.

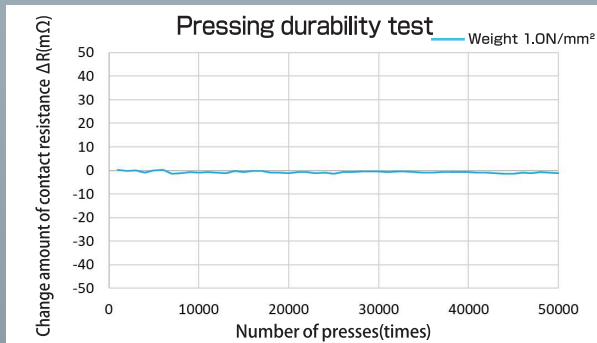
## Test method

• Contact resistance is measured with the test equipment shown below.

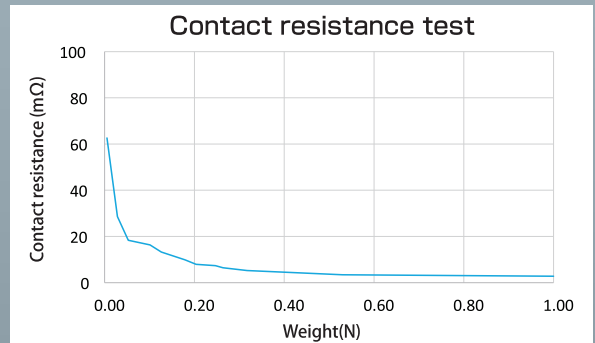


※Measuring probe : Area size 1.0mm×1.0mm with Au plating

## Durability



## Contact resistance



- "UHSS" is the sheet contact capable to support various direction, which is made by Etching.
- UHSS uses high elasticity and high strength material.
- Conduction path of the electrode is quite short and excellent in high frequency transmission characteristics.
- Electrically stable even under low weight conditions.
- Has superior durability compared to ordinary anisotropic conductive sheets.
- Electrodes can be flexibly placed on a wide range of devices.
- Allows to use customized sockets by combining with optional products.

# Specification

Model Number	Pitch		Thickness	Product size		Electrode size
	(Px)	(Py)	(T)	(X)	(Y)	(L)
UHSS-P0.08-0.05T-001	0.08mm		0.05mm	50 × 50mm		□0.06mm
UHSS-P0.20-0.05T-001	0.20mm		0.05mm	50 × 50mm		□0.15mm

※We're offering to customize outer product size. Please feel free to contact us for details.

※Please write down the product name (model) then contact us by phone or from our website when you decide to purchase our products.