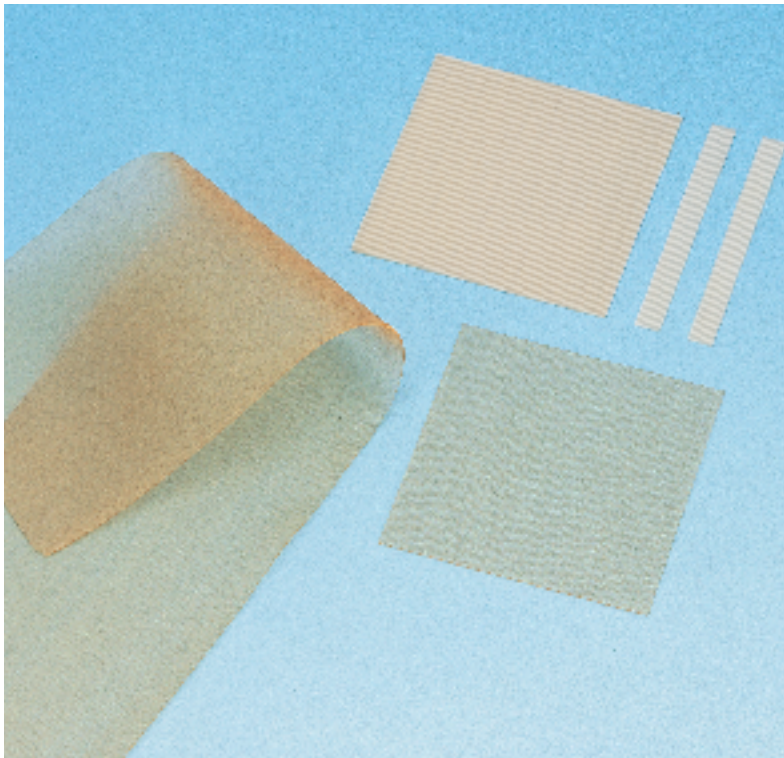


## Shin-Etsu Inter-Connector®

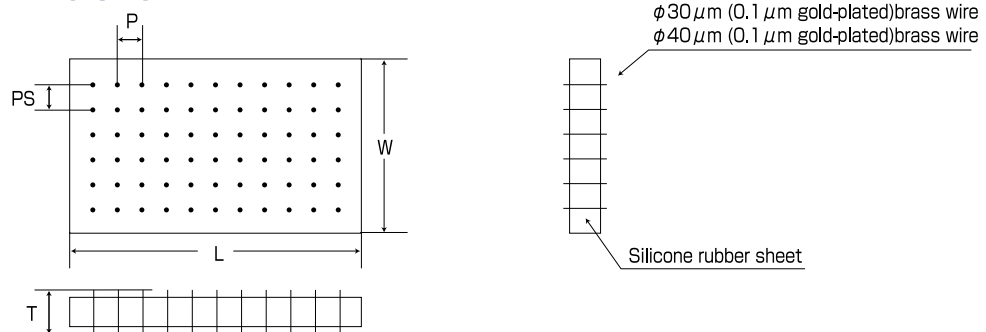
# GB-Matrix TYPE



### FEATURES

GB-Matrix type Inter-Connectors consist of multiple rows of metal filaments embedded symmetrically in a sheet of insulating silicone rubber. Since the pitch or the thickness is changeable up to electrode layout, GB-Matrix type is used for comprehensive applications such as PCB, assembly and testing device.

### OUTLINE DIMENSIONS



### DIMENSIONS AND TOLERANCES

Item		Unit	Standard		
Pitch(Length direction)	P	mm	0.05+0.03/-0.01	0.1±0.05	0.20±0.05
Pitch(Width direction)	PS	mm	0.25±0.05	0.6±0.05	
Length	L	mm	2.0~ 25.0±0.2	25.1~ 50.0±0.3	
Width	W	mm	2.0~ 25.0±0.2	25.1~ 50.0±0.3	
Thickness	t	mm	0.3~2.5 ± 0.05		
Filament diameter		$\mu\text{m}$	30	40	40

\*1 Pitch alignment can be custom-made.  
 \*2 Special design is available on request.  
 Max. size: 200L×50W

Shin-Etsu Inter-Connector has been registered in European Community, TM No. 000299016, and in the United States of America, TM No. 2078941.

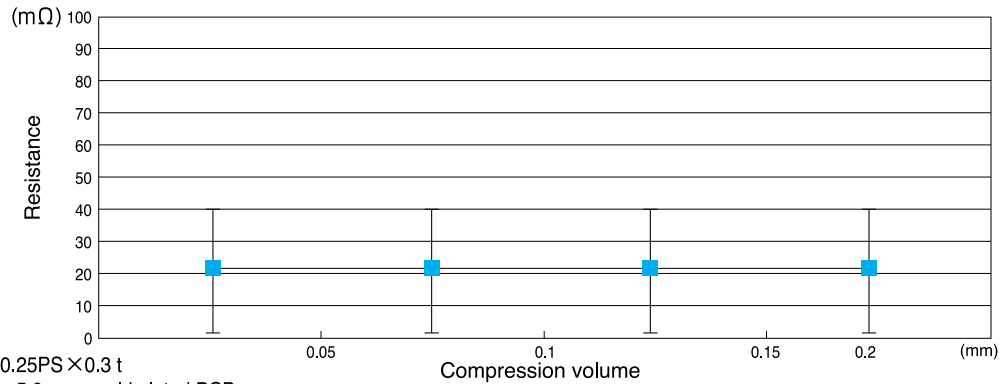
## BASIC PROPERTIES

Item	Units	Values
Contact resistance*	$\Omega$	$\leq 0.1$ *1
Current carrying capacity*	mA/electrode	500 *2
Insulation resistance(500V DC)	M $\Omega$	$1 \times 10^3 \leq$
Operating temperature range	$^{\circ}\text{C}$	-25~ 85

\*1 The test is carried out with Shin-Etsu's own method.

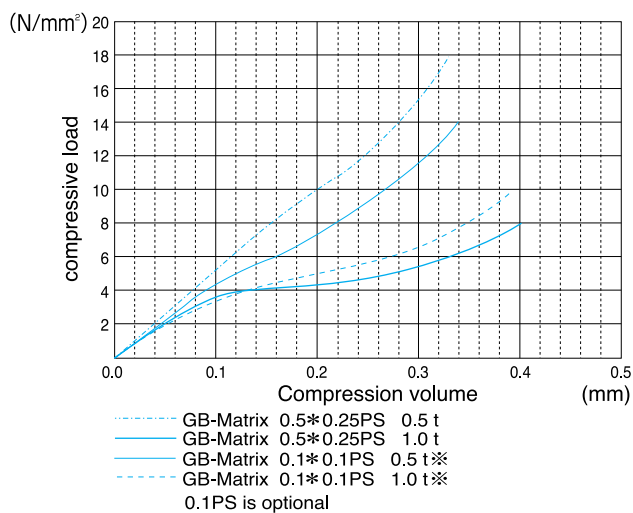
\*2 When  $\geq 10$  metal filaments contact with an electrode.

## COMPRESSION-RESISTANCE GRAPH



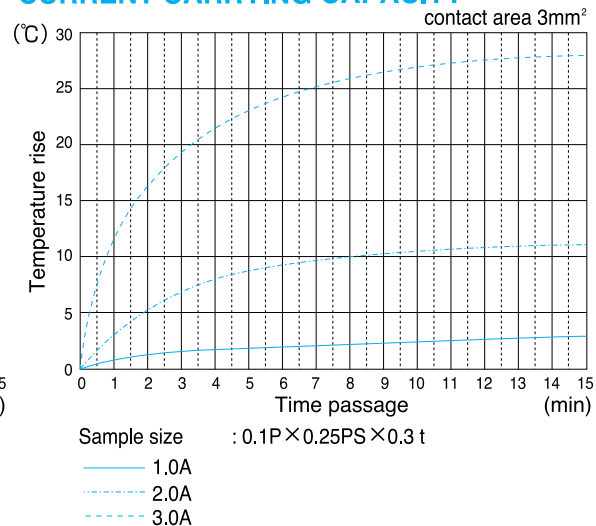
Sample size : 0.1P $\times$ 0.25PS $\times$ 0.3 t  
electrode pattern 0.15mm $\times$ 5.0mm $\times$ gold plated PCB

## COMPRESSION LOAD-VOLUME CURVES



— GB-Matrix 0.5\*0.25PS 0.5 t  
— GB-Matrix 0.5\*0.25PS 1.0 t  
— GB-Matrix 0.1\*0.1PS 0.5 t\*\*  
— GB-Matrix 0.1\*0.1PS 1.0 t\*\*  
0.1PS is optional

## CURRENT CARRYING CAPACITY



Sample size : 0.1P $\times$ 0.25PS $\times$ 0.3 t  
— 1.0A  
— 2.0A  
— 3.0A

**Note)** Every item or numerical value indicated herein is measured by Shin-Etsu and out of guarantee.  
The quality of the connector, which has been already assembled, is out of guarantee.  
Please make sure to see about the purpose/conditions of use and practice your own test.  
Industrial ownership like patent doesn't guarantee the usage of the connector

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