

# 0.5 mm PITCH MATCHED IMPEDANCE STACKING CONNECTORS FOR HIGH-SPEED SIGNAL REQUIREMENTS

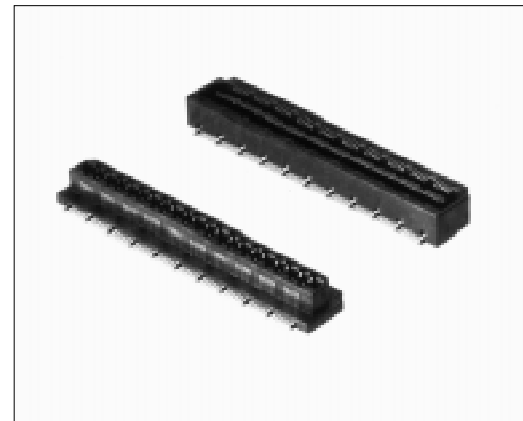
## FCN-290H SERIES

### ■ FEATURES

- Terminal pitch of 0.5mm, SMT terminals (for both plug and socket).
- This connector can connect boards in parallel with 5.5 mm stacking height .
- Bellows contacts provide reliable interconnection.
- Characteristic impedance matching is 50Ω and low cross talk.

### ■ SPECIFICATIONS

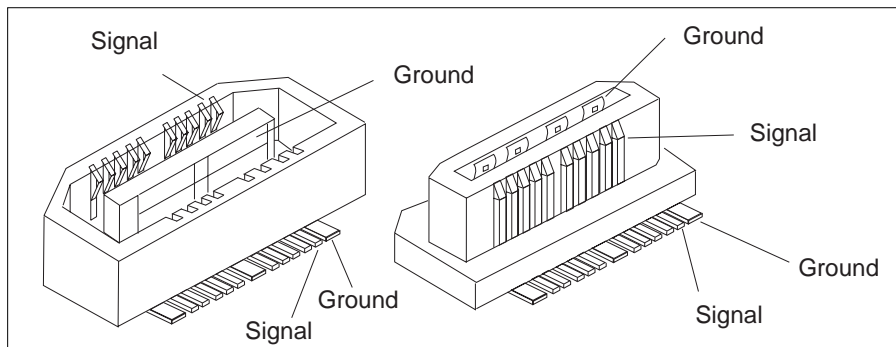
Item	Specifications
Operating temperature range	-55° to +85 ° C
Rated current	0.2A DC
Rated voltage	24V AC
Contact resistance	80mΩ max
Insulation resistance	500V DC, 100MΩ min.
Dielectric withstand voltage	150V AC, 1 min.



### ■ MATERIALS

Item	Material
Insulator	LCP
Conductor	Copper alloy
Plating	Surface finish of contact: PAGOS® Terminal: palladium

### 1. OUTER VIEW



### 2. HIGH FREQUENCY DATA

#### a. Cross talk (%)

Rise Time 2.33ns		2.33ns (150MHz)	1.16ns (300MHz)	0.58ns (600MHz)
Crosstalk %	Near end	0.32	1.47	2.56
	Far end	0.36	1.37	2.43

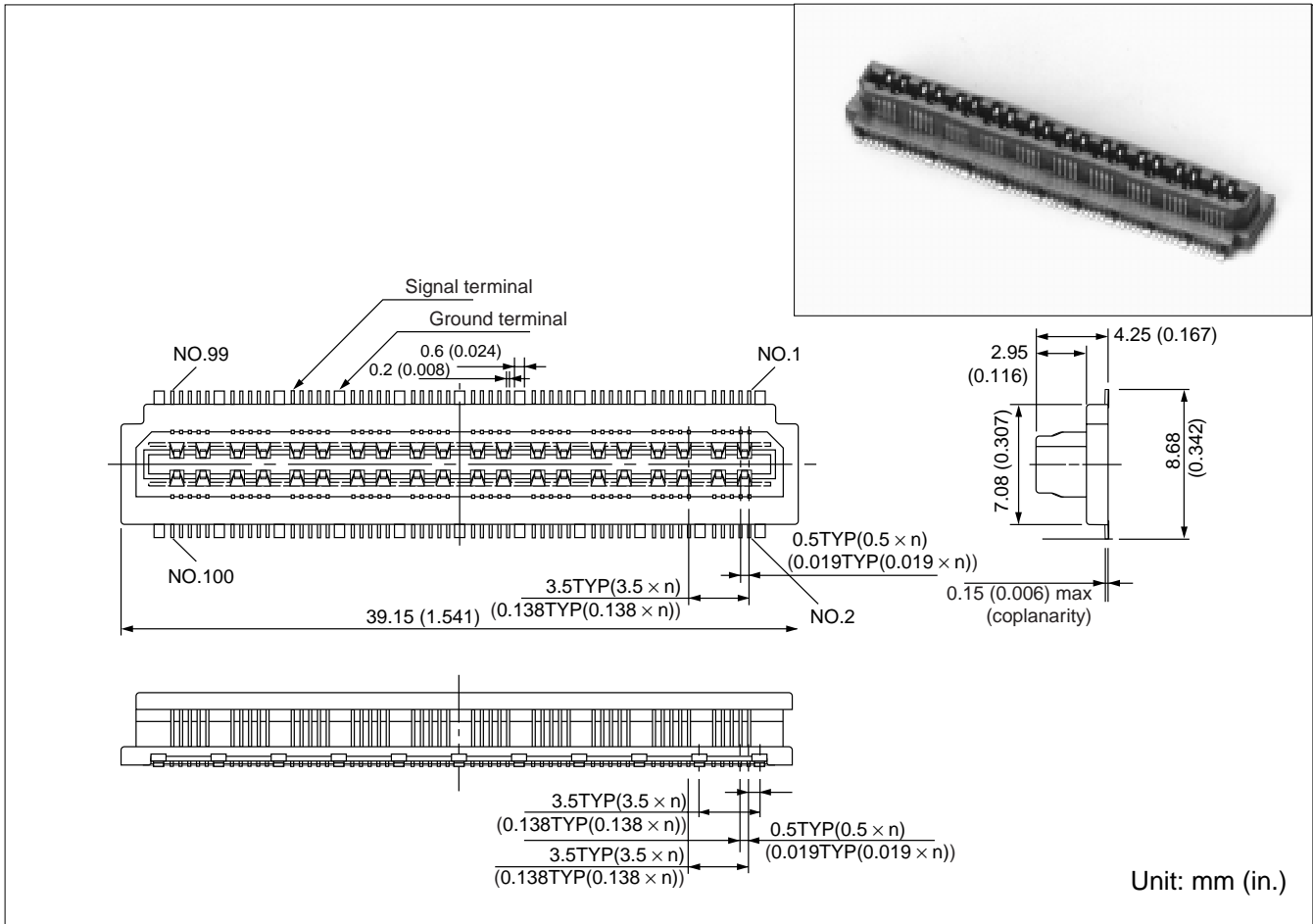
#### b. Characteristic impedance (Ω)

	2.33ns (150MHz)	1.16ns (300MHz)	0.58ns (600MHz)
Characteristic impedance (Ω)	53.07~53.63	53.56~53.93	51.16~59.60

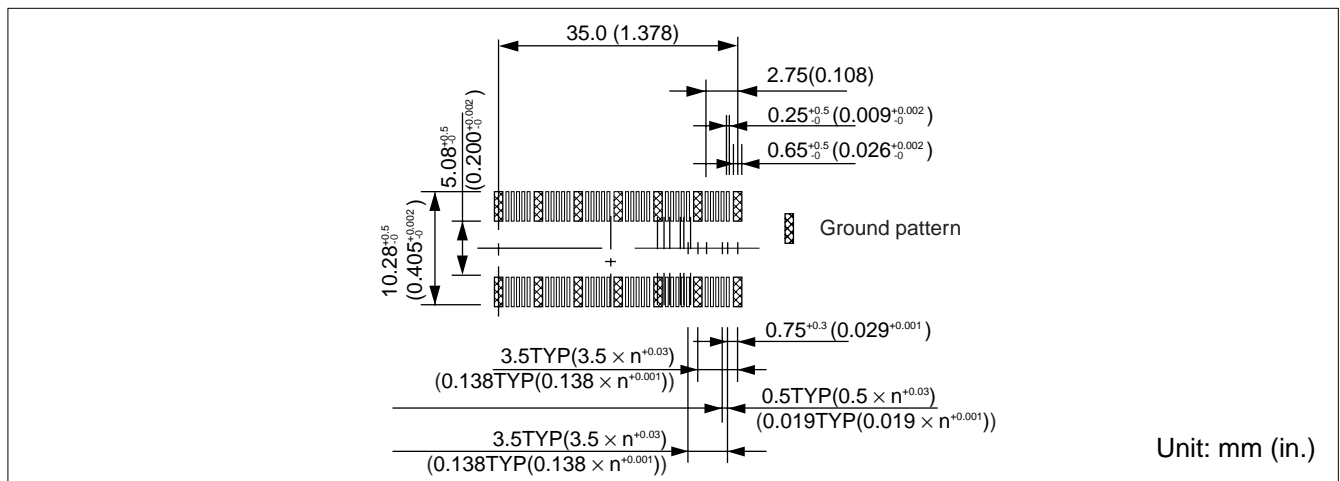
# 290H Series (0.5mm supports high-speed signals, stacking)

## SOCKET, SMT

### ■ DIMENSIONS



### ■ PC board mounting pattern



### ■ ORDERING PART NUMBER

FCN-298P100-L/0H



# 290H Series (0.5mm supports high-speed signals, stacking)

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