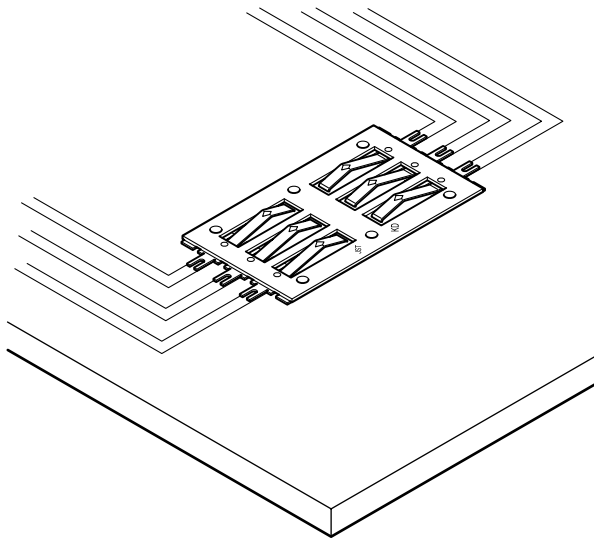# SCG **CONNECTOR**

The world first 0.4mm (.016") thick ultra low-profile connector for the SIM card which is used for the identification of the user in the GSM method mobile phones - the European unified standard for the digital phones.

Features

• Ultra-thin
The SCG connector, with only 0.4mm (.016") of thickness and 0.19g of weight, helps to make small and light mobile phones.

• Positioning bosses

• The SCG connector is applicable to the SIM card insertion methods in two ways, downward or sideward (slot-in method)

• Embossed tape for automatic mounting
The FLH connector can be packaged in embossed tape for automatic mounting

• Contact leads are designed to be securely held on the PC board, resistant to the peeling force
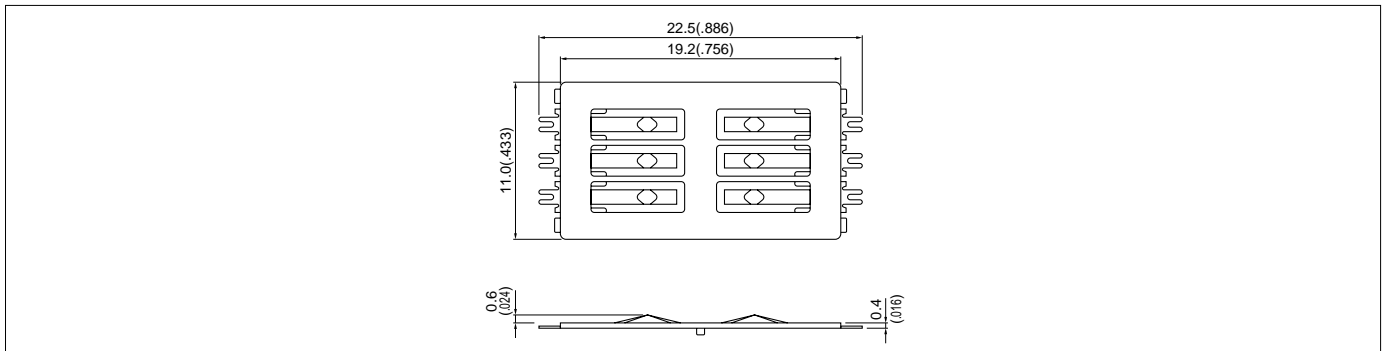
Application <where to use this connector>
The SCG connector is to be mounted under the battery pack. The thickness of the connector there greatly affects the mobile phone thickness. With the SCG connector, the height in total can be only about 1.6mm (.063"), while the conventional connector with the cover is about 2.5mm (.098").

Specifications

• Current rating: 1.0A AC, DC
• Voltage rating: 30V AC, DC
• Temperature range: -25˚C to +85˚C
                     (including temperature rise in applying
                      electrical current)
• Contact resistance: Initial value/40m max.
                      After environmental testing/60m max.
• Insulation resistance: 10,000M min.
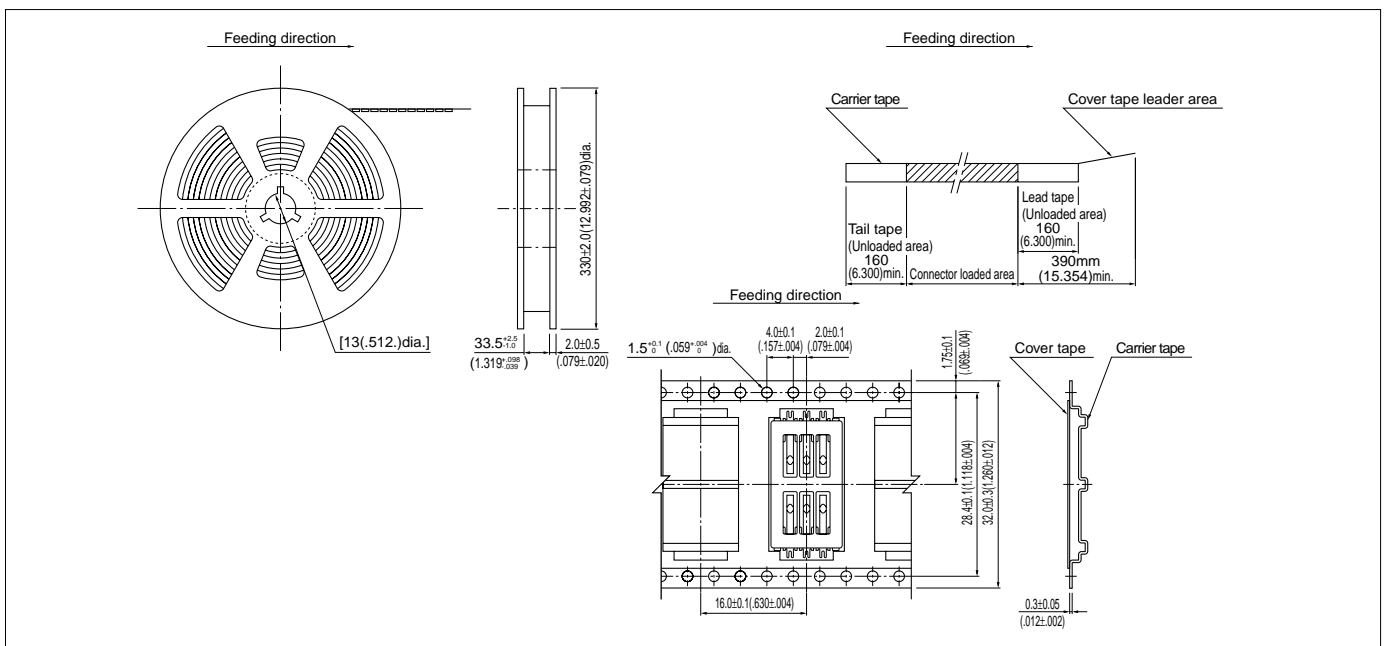• Withstanding voltage: 500V AC/minute
* Contact JST for details.

Connector

22.5(.886)
19.2(.756)
11.0(.433)
0.6(.024)
0.4(.016)

Model No.	Material and Finish	Q'ty / reel
SCG-SS6A-1416-TB	Contact: Copper alloy, nickel-undercoated Mating section···Gold-plated Solder tail···Tin/lead-plated Housing: LCP, UL94V-0, black	1,500

Note: The products listed above are supplied on embossed tape.

Taping specifications

Feeding direction

Feeding direction

Carrier tape

Cover tape leader area

330±2.0(12.992±.079)dia.

[13(.512.)dia.]

Lead tape
(Unloaded area)
160
(6.300)min.

Tail tape
(Unloaded area)
160
(6.300)min.

Connector loaded area

390mm
(15.354)min.

Feeding direction

33.5⁺²·⁵₋₁·₀
(1.319⁺·⁰⁹⁸₋·₀₃₉)

2.0±0.5
(.079±.020)

1.5⁺⁰·¹₀ (.059⁺·⁰⁰⁴₀)dia.

4.0±0.1
(.157±.004)

2.0±0.1
(.079±.004)

1.75±0.1
(.069±.004)

28.4±0.1(1.118±.004)
32.0±0.3(1.260±.012)

Cover tape

Carrier tape

16.0±0.1(.630±.004)

0.3±0.05
(.012±.002)

Note:
1. Specifications conform to JIS C 0806. The tape width, connector recess dimensions, etc. are determined by the number of circuits and external shape of the connector to be loaded.
2. Specifications are subject to change without prior notice.

PC board layout (viewed from component side)

2.54±0.05
(.100±.002)

6---2
(.079)dia.

4.5±0.05
(.177±.002)

2---0.65
(.026)dia.

2.0±0.05
(.079±.002)

5.08±0.05
(.200±.002)

2.54±0.05
(.100±.002)

19.8±0.05(.780±.002)

23.4±0.05(.921±.002)