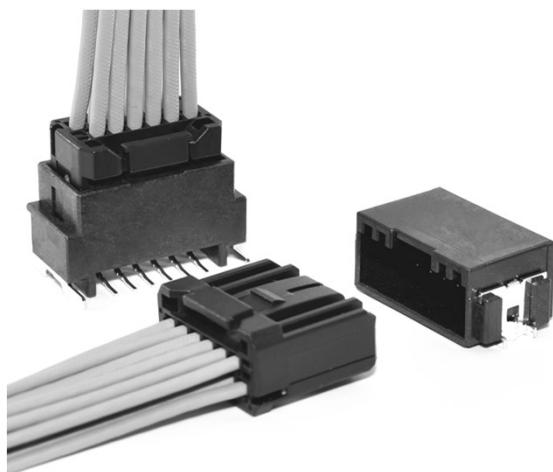


CPM CONNECTOR

Wire-to-Board



■ Features

● Miniaturized and Low Profile

Miniaturized and low profile automotive connector which pitch is width: 2.0 mm and length: 2.5 mm by using the 0.5 terminal.

● High Heat Resistance 125°C

Conforming a heat resistant temperature of 125°C.

● Lock Flip-up Prevention Mechanism

Low profile connector which has the mechanism to prevent the lock damage by catching the wire cables.

● Conforming to UL94 V-0

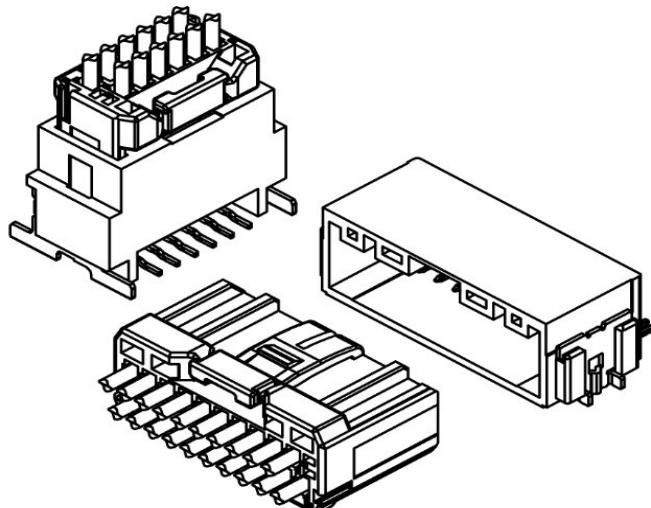
Using UL94 V-0 material to meet the increasing market demand of the flame-retardant requirement.

● Same PCB Pattern as CPT

Applying the same PCB layout of CPT connector.

Miniaturized and low profile surface mounting type connector for automotive.

0.50 terminal with 2.0 mm pitch realized its miniaturization.



■ Specifications

Item	Standard	Condition
● Current rating	3A AC,DC Max	Applying 0.3mm ²
● Temperature range	-40°C ~ +125°C	Including temperature rise in applying electrical current
● Applicable wire	UL3265 0.3mm ² AESSX 0.3mm ² (Equivalent of AWG#22)	Coating OD: Φ1.5mm max
● Frame resistance	V-0	UL94
● Contact resistance	Initial 25mΩ max After environmental test 25mΩ max	DC 100mA
● Insulation resistance	100MΩ min	DC 500V
● Withstand voltage	No dielectric breakdown	AC 1,000V / min.
● Locking force	110N min	In case pulling to mating direct

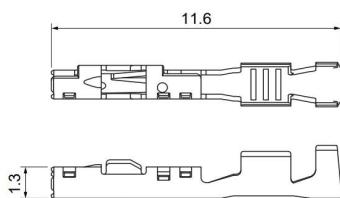
■ Test Result

Item	Test Result	Condition
● Heat resistance	Initial 15mΩ max	Under 125°C, Abandoned for 1,008 hours
● Thermal shock resistance	Initial 15mΩ max	-40°C/125°C 30 min / 1000cyc / each
● Vibration resistance	Initial 15mΩ max	USCAR2 V2

*Compliant with ELV/RoHS2.

*Contact JST for details.

Female Terminal



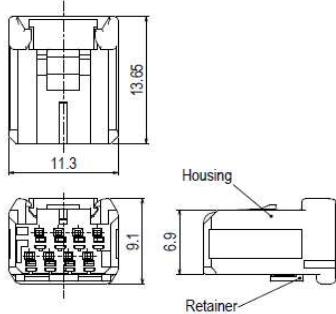
Model No.	Applicable wire range		Q'ty/reel
	Conductor (mm ²)	Insulation O.D. (mm)	
SMEC-A021T-M0.5	0.3	1.5 max.	10,000

Material and Finish

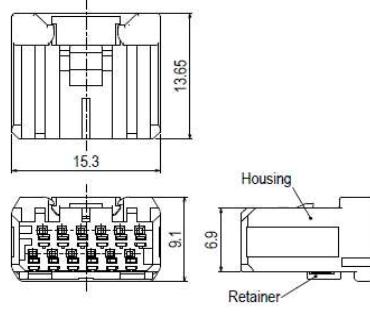
Copper alloy, tin-plated

Female Connector

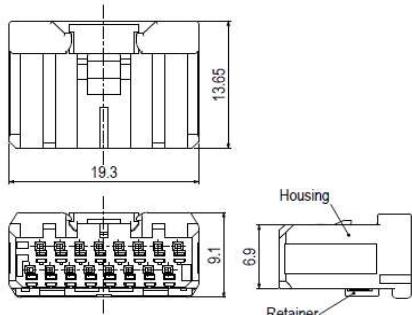
● 8 circuits



● 12 circuits



● 16 circuits



Circuits	Model No.	Housing Color	Q'ty/box
8	08CPM-BVK-2-AA	Black	4,800
12	12CPM-BVK-2-AA	Black	3,600
16	16CPM-BVK-2-AA	Black	2,400
20	20CPM-BVK-2-AA	Black	1,200

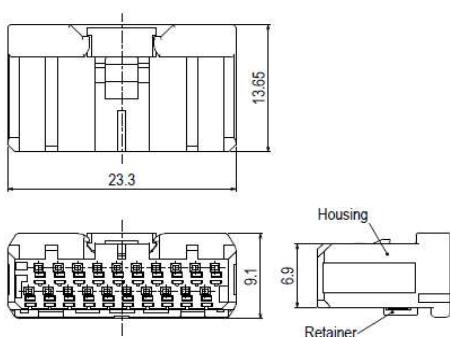
Material and Finish

Housing: Glass-filled PBT

Retainer: Glass-filled PBT, Natural (White)

Note: Color/Key codes other than above-mentioned housing are also available.
Contact JST for details.

● 20 circuits

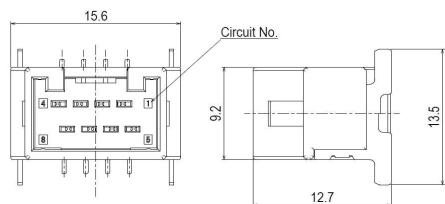
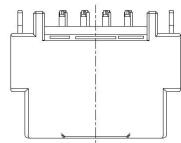


CPM CONNECTOR

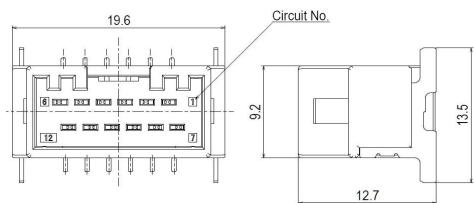
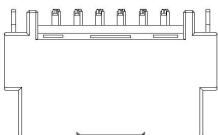
Male Connector

Top Type

● 8 circuits



● 12 circuits



Circuits	Model No.	Housing Color	Q'ty/box
8	BM08B-CPMK-2AA-TB	Black	1,100
12	BM12B-CPMK-2AA-TB	Black	880

Material and Finish

Housing: Glass-filled LCP

Suction cap: PA9T

Male Terminal: Copper alloy, tin-plated

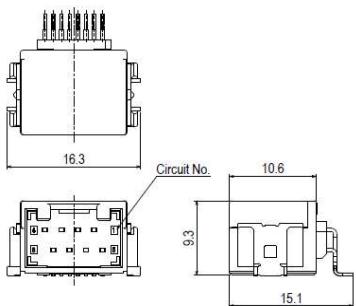
Tab: Copper alloy, tin-plated

Note: Color/Key codes other than above-mentioned housing are also available.
Contact JST for details.

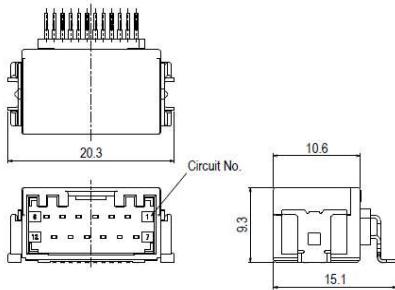
Male Connector

Side Type

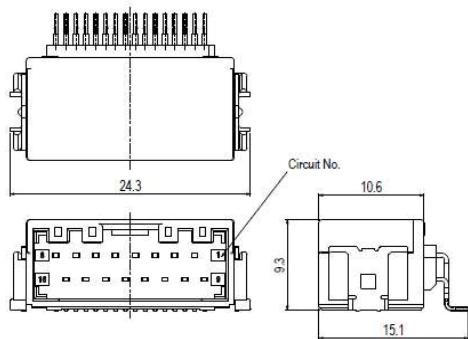
● 8 circuits



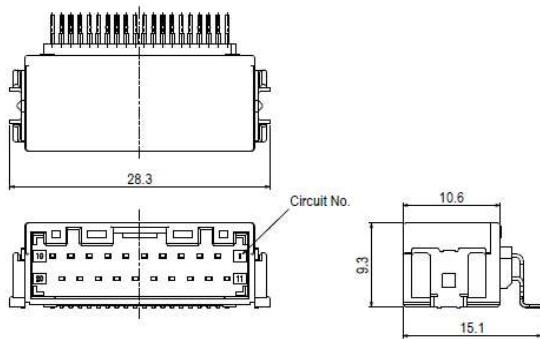
● 12 circuits



● 16 circuits



● 20 circuits



Circuits	Model No.	Housing Color	Q'ty/box
8	SM08B-CPMK-2AA-TB	Black	1,600
12	SM12B-CPMK-2AA-TB	Black	1,280
16	SM16B-CPMK-2AA-TB	Black	1,280
20	SM20B-CPMK-2AA-TB	Black	1,280

Material and Finish

Housing: Glass-filled LCP

Male Terminal: Copper alloy, tin-plated

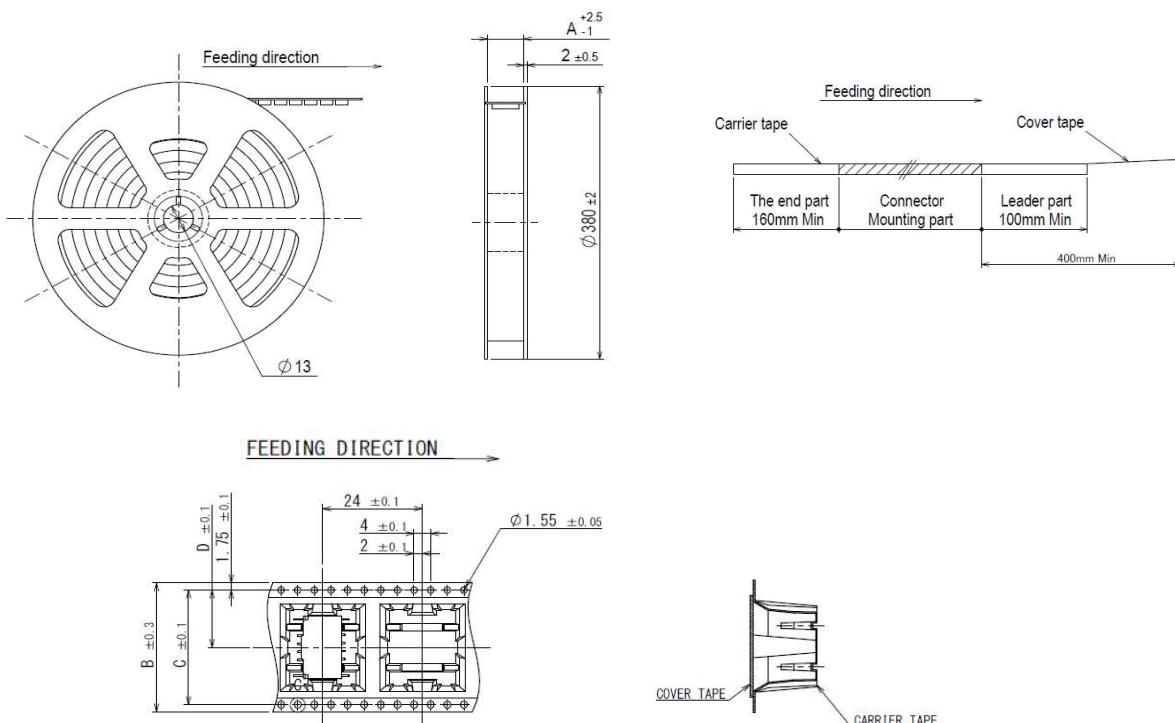
Tab: Copper alloy, tin-plated

Note: Color/Key codes other than above-mentioned housing are also available.
Contact JST for details.

CPM CONNECTOR

Taping Specification Top Type

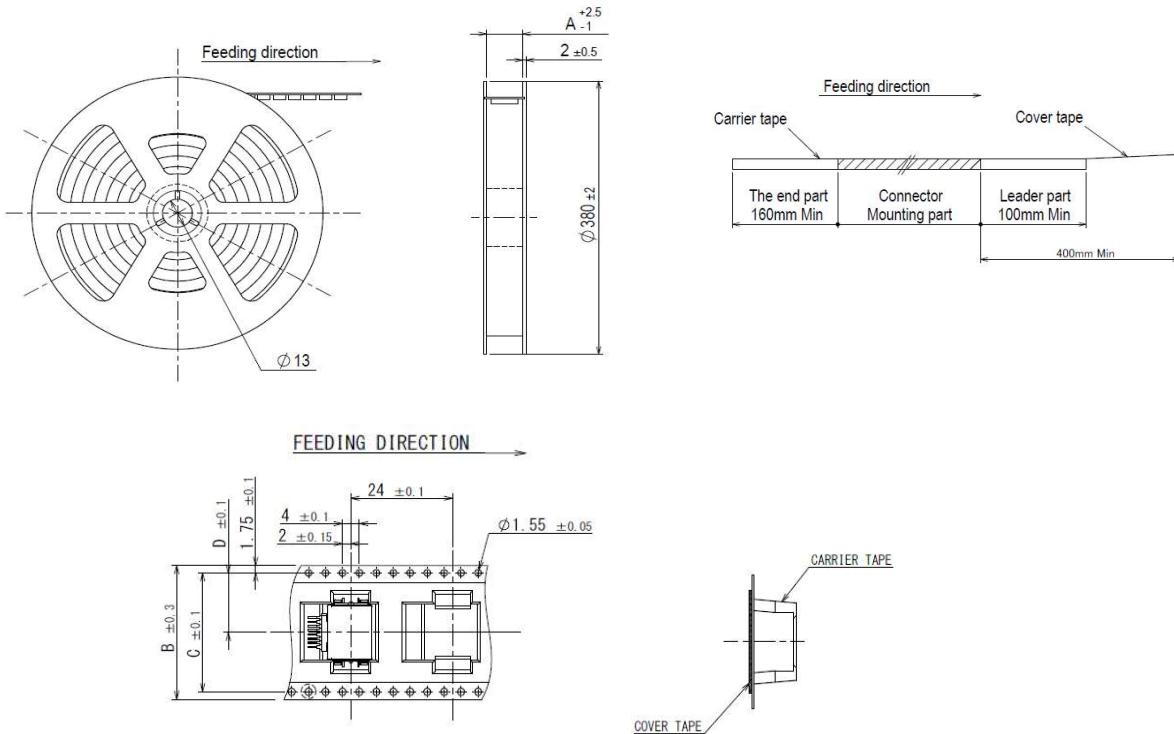
● 8, 12 circuits



Circuits	A	B	C	D
8	33.4	32	28.4	14.2
12	45.4	44	40.4	20.2

Taping Specification Side Type

● 8, 12, 16, 20 circuits



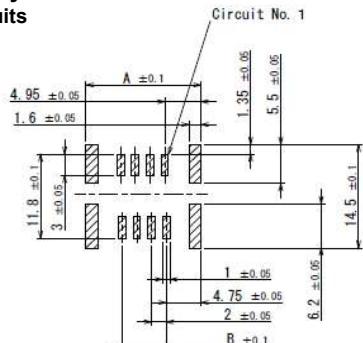
CPM CONNECTOR

PC board layout (Viewed from component side), Assembly layout

Top Type

PC board layout

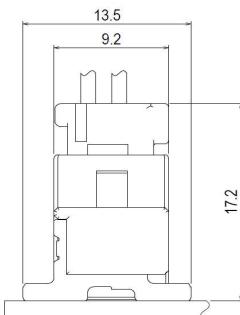
- 8, 12 circuits



Circuits	A	B
8	15.7	6
12	19.7	10

Assembly layout

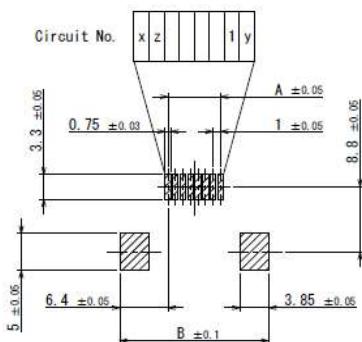
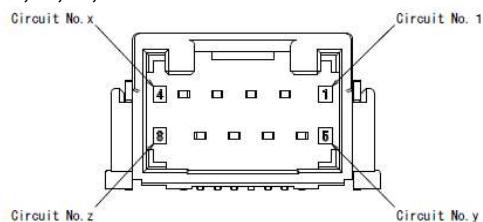
- 8, 12 circuits



Side Type

PC board layout

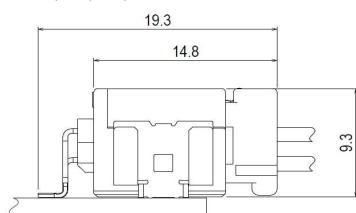
- 8, 12, 16, 20 circuits



Circuits	A	B
8	7	19.8
12	11	23.8
16	15	27.8
20	19	31.8

Assembly layout

- 8, 12, 16, 20 circuits



Crimping machine, Applicator

Strip terminal

Crimping machine

Crimp applicator MKS-L

Dies

Crimp applicator with dies

SMEC-A021T-M0.5

AP-K2N

MK/SMEC-A021-05

APLMK SMEC-A021-05

Note: 1. Contact JST for details.

2. When crimping operation is conducted using an applicator and die set other than the above, JST cannot guarantee the performance of the terminal.