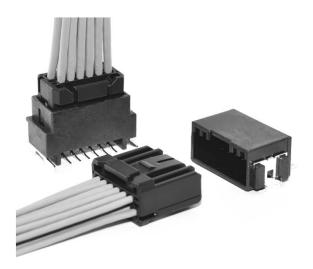
CPMCONNECTOR

Wire-to-Board



Miniaturized and low profile surface mounting type connector for automotive. 0.50 terminal with 2.0 mm pitch realized its miniaturization.

■ 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

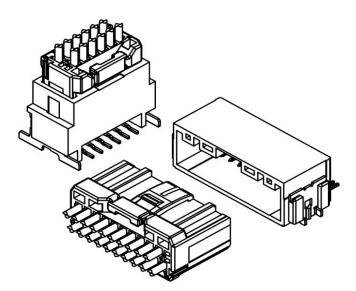
Low profile connector which has the mechanism to prevent the lock damage by catching the wire cables.

●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.

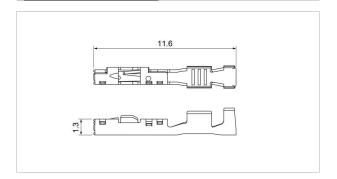


Item	Standard	Condition
●Current rating	3A AC,DC Max	Applying 0.3mm ²
●Temperature range	-40°C~+125°C	Including temperature rise in applying electrical current
●Applicable wire	UL3265 0.3mm ² AESSX 0.3mm ² (Equivalent of AWG#22)	Coating OD: Ф1.5mm max
●Frame resistance	V-0	UL94
●Contact resistance	Initial 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.

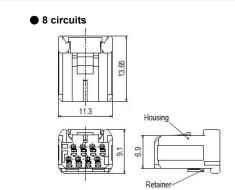
Female Terminal



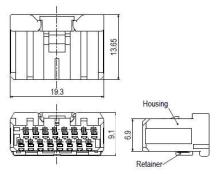
	Applicable wire range			
Model No.	Conductor (mm²)	Insulation O.D. (mm)	Q'ty/reel	
SMEC-A021T-M0.5	0.3	1.5 max.	10,000	
Material and Finish				

Copper alloy, tin-plated

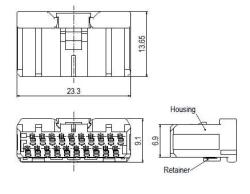
Female Connector



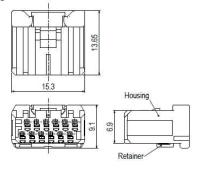
● 16 circuits



• 20 circuits



• 12 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

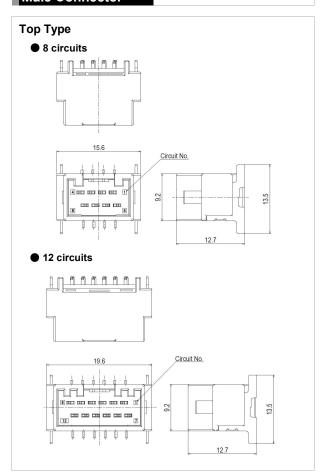
Material and Finish

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.

CPM CONNECTOR

Male Connector



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

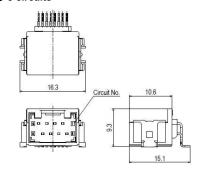
Tab: Copper alloy, tin-plated

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

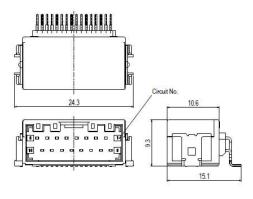
Male Connector

Side Type

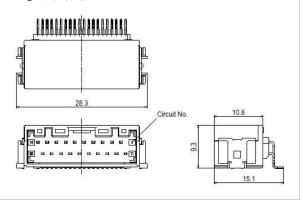
8 circuits



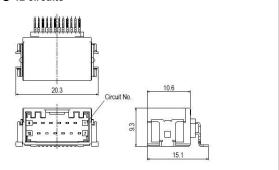
• 16 circuits



● 20 circuits



• 12 circuits



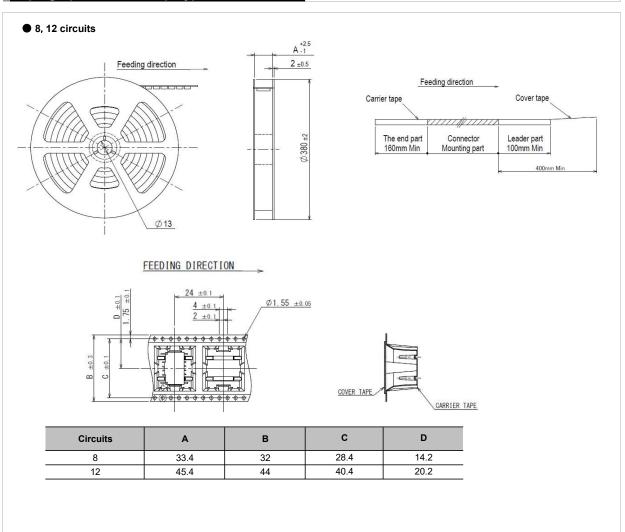
Circuits	Model No.	Housing Color	Q'ty/box
8	SM08B-CPMK-2AA-TB	Black	1,600
12	SM12B-CPMK-2AA-TB	Black	1,280
16	SM16B-CPMK-2AA-TB	Black	1,280
20	SM20B-CPMK-2AA-TB	Black	1,280

Material and Finish

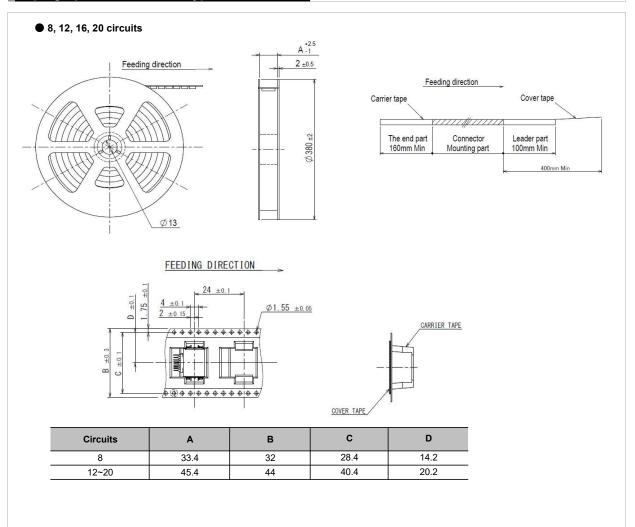
Housing: Glass-filled LCP Male Terminal: Copper alloy, tin-plated Tab: Copper alloy, tin-plated

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

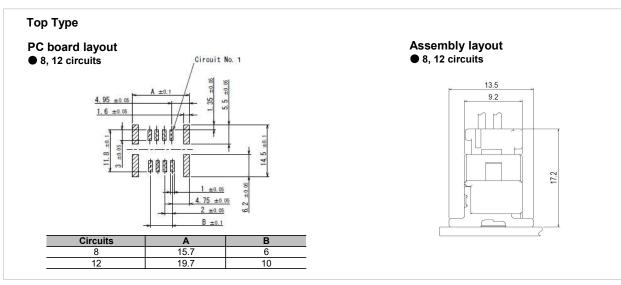
Taping Specification Top Type



Taping Specification Side Type



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



Side Type PC board layout **Assembly layout** ● 8, 12, 16, 20 circuits ● 8, 12, 16, 20 circuits Circuit No. x Circuit No. 1 19.3 14.8 10000 1 Circuit No. z Circuit No. y Circuit No. A ±0.05 0.75 ±0.0 3.85 ±0.05 Circuits 19.8 12 11 23.8 16 15 27.8

Crimping machine, Applicator

Strip terminal	Crimping	Crimp applicator MKS-L	
Strip terminal	machine	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.