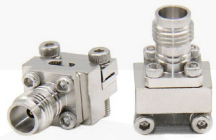
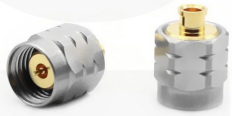
1.85 mm RF Connector

The 1.85mm connector was designed to operate modelessly at 65 GHz. To limit bead interaction in a mated pair, the interface employs a mainly air-dielectric with a support bead placed back in the connector's body. The body, like the 2.92mm and 2.4mm connectors, is constructed such that the outside conductors engage before the central conductors do. Only the 2.4mm interface is compatible with the 1.85mm interface, which has an M7 thread. Adapters are available to link 1.85mm connections to SMA and 2.92mm connectors. The 1.85mm connector complies with RoHS and REACH regulations.



Part No	Part Name	Frequency
40-0001	1.85 mm female connector solderless for PCB	67 GHz



Part No	Part Name	Frequency
40-0002	1.85 mm male connector solder for RG405 cable	65 GHz



Part No	Part Name	Frequency
40-0003	1.85 mm male connector 4-hole flange mount for PCB	65 GHz



Part No	Part Name	Frequency
40-0004	1.85 mm male connector 4-hole flange mount for PCB	65 GHz

1.85 mm RF Connector



Part No	Part Name	Frequency
40-0005	1.85 mm female connector 2-hole flange mount for PCB	65 GHz



Part No	Part Name	Frequency
40-0006	1.85 mm female connector 4-hole flange mount for PCB	65 GHz



Part No	Part Name	Frequency
40-0007	1.85 mm female connector 4-hole flange mount for PCB	65 GHz

2.4 mm RF Connector

The 2.4 mm connector is a type of RF (Radio Frequency) connector that is commonly used in high-frequency applications where a precise and reliable connection is required. It is similar to the 2.92 mm connector, but smaller in size.

The 2.4 mm connector has a screw-on coupling mechanism, which provides a secure and reliable connection. It also has a characteristic impedance of 50 ohms, making it suitable for high-frequency applications up to 50 GHz.



Part No	Part Name	Frequency
41-001	2.4 mm connector plug for 3506 cable	50 GHz



Part No	Part Name	Frequency
41-002	2.4 mm connector jack flange for 3506 cable	50 GHz



Part No	Part Name	Frequency
41-003	2.4 mm connector plug for RG405 cable	50 GHz



Part No	Part Name	Frequency
410-004	2.4 mm connector plug for 3507 cable	40 GHz

2.4 mm RF Connector



Part No	Part Name	Frequency
41-005	2.4 mm connector plug for 3507 cable	50 GHz



Part No	Part Name	Frequency
41-006	2.4 mm connector plug for zlb220 cable	50 GHz



Part No	Part Name	Frequency
41-007	2.4 mm connector plug for zlb360 cable	40 GHz



Part No	Part Name	Frequency
41-008	2.4 mm connector end launch solderless for PCB	50 GHz



Part No	Part Name	Frequency
41-009	2.4 mm connector 2-hole flange for pcb	50 GHz

2.4 mm RF Connector



Part No	Part Name	Frequency
41-010	2.4mm connector jack 2-hole flange	50 GHz



Part No	Part Name	Frequency
41-011	2.4mm connector jack 2-hole flange	50 GHz



Part No	Part Name	Frequency
41-012	2.4 mm connector 4-hole flange for pcb	50 GHz

The 2.92 mm connector, also known as the K connector, is a type of RF (Radio Frequency) connector that is commonly used in high-frequency applications where a precise and reliable connection is required. It is also known as the SMK connector.

The 2.92 mm connector has a screw-on coupling mechanism, which provides a secure and reliable connection. It also has a characteristic impedance of 50 ohms, making it suitable for high-frequency applications up to 40 GHz.



Part No	Part Name	Frequency
42-001	2.92 plug connector for 3506 cable ss	40 GHz



Part No	Part Name	Frequency
42-002	2.92 plug connector for 086 cable ss	40 GHz



Part No	Part Name	Frequency
42-003	2.92 plug connector for RG405 cable ss	40 GHz

2.92 mm RF Connector



Part No	Part Name	Frequency
42-005	2.92 plug connector for RG405 cable ss	40 GHz



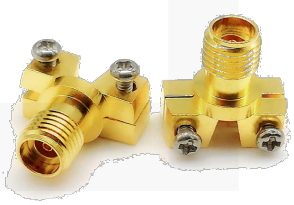
Part No	Part Name	Frequency
42-006	2.92 plug connector for ZLB360 cable ss	40 GHz



Part No	Part Name	Frequency
42-007	2.92 jack edge mount for pcb	40 GHz



Part No	Part Name	Frequency
42-008	2.92 jack 4-hole flange for pcb	40 GHz



Part No	Part Name	Frequency
42-009	2.92 jack solderless for pcb	40 GHz

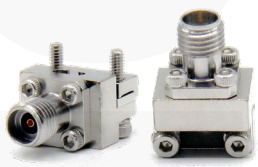
2.92 mm RF Connector



Part No	Part Name	Frequency
42-010	2.92 jack bulkhead rear mount for pcb	40 GHz



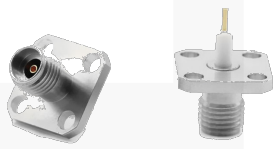
Part No	Part Name	Frequency
42-011	2.92 jack solderless for pcb	40 GHz



Part No	Part Name	Frequency
42-012	2.92 jack solderless for pcb	40 GHz

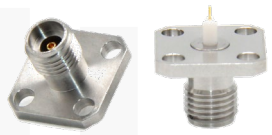


Part No	Part Name	Frequency
42-013	2.92 jack 4-hole flange for pcb	40 GHz



Part No	Part Name	Frequency
42-014	2.92 jack 4-hole flange for pcb	40 GHz

2.92 mm RF Connector



Part No	Part Name	Frequency
42-015	2.92 jack 4-hole flange for pcb	40 GHz



Part No	Part Name	Frequency
42-016	2.92 jack 4-hole flange for pcb with glass bead	40 GHz



Part No	Part Name	Frequency
42-017	2.92 jack 2-hole flange for pcb with glass bead	40 GHz



Part No	Part Name	Frequency
42-018	2.92 jack 4-hole flange for pcb with glass bead	40 GHz



Part No	Part Name	Frequency
42-019	2.92 jack 4-hole flange for pcb	40 GHz

3.5 mm RF Connector

A 3.5 mm RF connector is a type of coaxial connector commonly used in radio frequency (RF) applications. It is also known as an SMA connector, which stands for SubMiniature version A. The 3.5 mm RF connector is designed to transmit high-frequency signals with low loss and minimal reflection.

The 3.5 mm RF connector has a threaded coupling mechanism that allows for a secure and reliable connection. It is commonly used in microwave applications, such as in test and measurement equipment, as well as in communication systems and radar systems.



Part No	Part Name	Frequency
43-001	3.5 mm plug for zla480g cable	34 GHz



Part No	Part Name	Frequency
43-002	3.5 mm plug for rg405 cable	34 GHz



Part No	Part Name	Frequency
43-003	3.5 mm plug for zla520g cable	34 GHz

P-SMP RF Connector

P-SMP Power/RF coaxial connectors combine all of the space-saving benefits of SMP connectors with the outstanding performance of SMA connectors. Unlike SMA and QMA methods, bullets of varying lengths can be used to achieve minimal board-to-board distances of 12.6 mm. Additionally, P-SMP connectors are designed for large power loads, with continuous power ratings of up to 200 W @ 2.2 GHz, and can withstand high frequencies of up to 10 GHz.

As a result, common applications include board-to-board connections in base stations and board-to-cable connections in power amplifier filter units.



Part No	Part Name	Frequency
25-001	P-SMP plug for PCB SMT	10 GHz



Part No	Part Name	Frequency
25-002	P-SMP plug rear mount for PCB	10 GHz



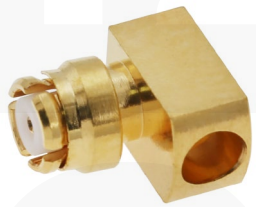
Part No	Part Name	Frequency
25-003	P-SMP jack to jack	10 GHz



Part No	Part Name	Frequency
25-004	P-SMP jack to jack	10 GHz

SMP RF Connector

SMP (SubMiniature version Push-on) connector is a type of coaxial connector used for RF applications. It was designed as a smaller alternative to the MMCX connector and features a push-on mating mechanism that requires no threading. The SMP connector has a frequency range of up to 40 GHz, making it suitable for high-speed data transmission and communication applications using a floating bullet adapter(SMP female to female). It also has excellent electrical performance characteristics, including low insertion loss, high return loss, and good impedance matching.



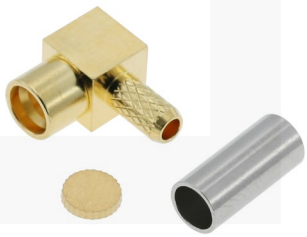
Part No	Part Name	Frequency
23-001	SMP jack right angle solder for ut85 cable	26 GHz



Part No	Part Name	Frequency
23-002	SMP plug solder for 0.086” cable	26 GHz



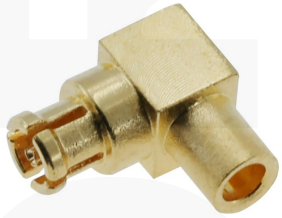
Part No	Part Name	Frequency
23-003	SMP plug bulkhead solder for 0.086” cable	26 GHz



Part No	Part Name	Frequency
23-004	SMP plug right angle solder for 0.047” cable	26 GHz



Part No	Part Name	Frequency
23-005	SMP plug rear mount solder for 0.086 cable	26 GHz



Part No	Part Name	Frequency
23-006	SMP jack right angle solder for 0.047” cable	26 GHz



Part No	Part Name	Frequency
23-007	SMP jack solder for 0.047” cable	26 GHz



Part No	Part Name	Frequency
23-008	SMP jack solder for RG405 cable	26 GHz



Part No	Part Name	Frequency
23-009	SMP jack right angle solder for RG405 cable	26 GHz



Part No	Part Name	Frequency
23-010	SMP jack straight for pcb	26 GHz



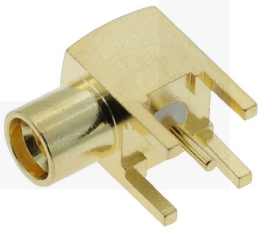
Part No	Part Name	Frequency
23-011	SMP jack straight for pcb	26 GHz



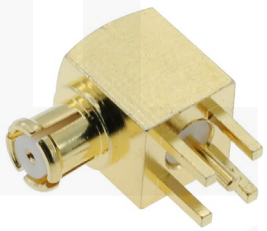
Part No	Part Name	Frequency
23-012	SMP plug straight for pcb	26 GHz



Part No	Part Name	Frequency
23-013	SMP plug straight for pcb	26 GHz



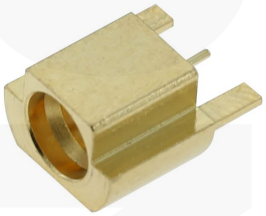
Part No	Part Name	Frequency
23-014	SMP plug right angle for pcb	26 GHz



Part No	Part Name	Frequency
23-015	SMP plug right angle for pcb	26 GHz



Part No	Part Name	Frequency
23-016	SMP plug straight for pcb	26 GHz



Part No	Part Name	Frequency
23-017	SMP plug straight for pcb	26 GHz



Part No	Part Name	Frequency
23-018	SMP plug rear mount for pcb	26 GHz



Part No	Part Name	Frequency
23-019	SMP plug bulkhead for pcb	26 GHz



Part No	Part Name	Frequency
23-020	SMP plug bulkhead for pcb	26 GHz

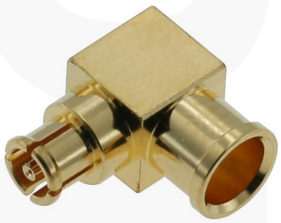
SMPM Connector

The SMPM interface is a micro-miniature interface with a frequency range of DC to 65 GHz. It is commonly used in miniaturized high frequency coaxial modules and is offered in both push-on and snap-on mating styles.

Gilbert Corning markets these connectors as GPPO (**G**ilbert **P**recision **P**ush-**O**n). SSMP (**S**ub-small **S**older **M**ount **P**ush-on) is another common designation. All of these products are the same and are intermateable. However, only SMPMs adhere to the specifications set forth by MIL-STD-348.



Part No	Part Name	Frequency
24-001	SMPM plug solder for 0.086” cable	18 GHz



Part No	Part Name	Frequency
24-002	SMPM plug right angle solder for 0.086” cable	18 GHz



Part No	Part Name	Frequency
24-003	SMPM plug straight for PCB	18 GHz

SMP-MAX Connector



Part No	Part Name	Frequency
26-001	SMP-MAX plug for pcb	6 GHz



Part No	Part Name	Frequency
26-002	SMP-MAX plug rear mount for pcb	6 GHz

High frequency BMA and SMPM D38999 cabled RF contacts (size 8, 12 & 16) to SMA male connectors on Ø.085 and Ø.141 cable types that populate standard D38999 circular connectors. These fixed length cable assemblies allow you to expand the use of the standard D38999 circular connector to incorporate microwave transmission lines.

Features / Benefits:

•High speed RF cable assemblies
•Standard and custom cable options available
•Blindmate advantage and maintenance of an accurate phase length when mated
•Uses standard interfaces based on MIL-STD-348, and can be installed in any MIL-DTL-38999 size 8, 12 or 16 insert
•Unique “Float Mount” technology allows for consistent microwave performance while maintaining tight mechanical tolerances
•High flex-life ensures excellent performance after repeated usage

Applications:

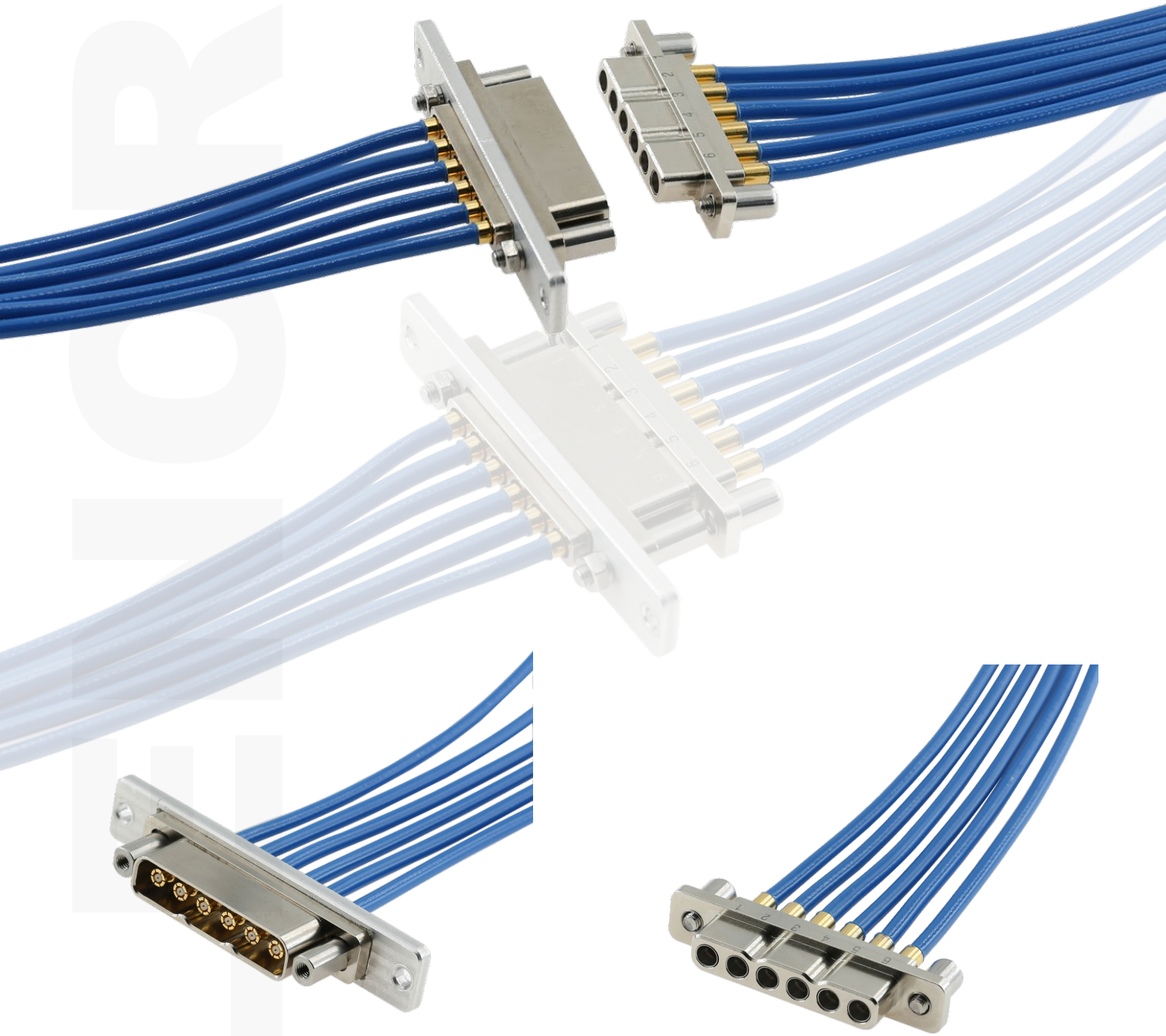
•Military and Aerospace
•Severe/Harsh Environments







D-sub use SMPM as a contact to supply high frequency function.



VITA 67.3 Coaxial Interface Connectors provide a standard for daughtercard to backplane connectors. This high-speed coax solution features customizable RF contact locations within the module itself, as well as an edge-launch option, removing the need for cable assemblies on a plug-in card. The VITA 67.3 interface uses floating SMPM coaxial pins to ensure excellent RF performance in any mating condition.



Part No	Part Name	Frequency
241-001	8 port plug-in module	40 GHz



Part No	Part Name	Frequency
241-002	8 port backplane module	40 GHz



Part No	Part Name	Frequency
241-003	SMPM jack spring contact for 0.047" cable	40 GHz