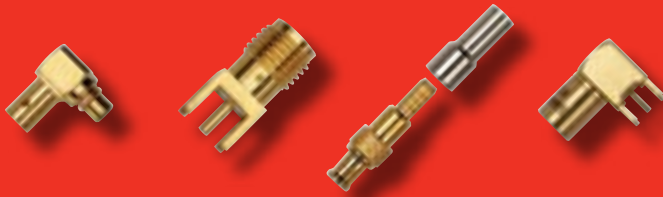
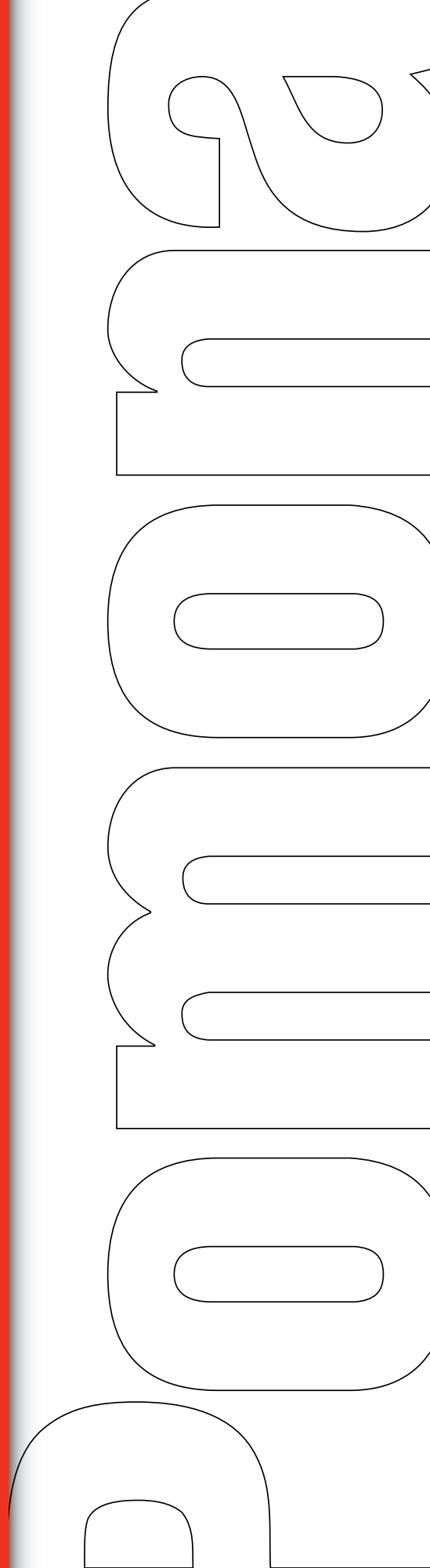


Distributor brochure



Pomona[®]
ELECTRONICS

**New! RF Connectors
Designed for a Smaller World**





MMCX Micro Connectors



MCX Connectors



SMA Connectors



SMB Connectors

Introducing New RF Connectors from Pomona

RF connectors are used for connection of coaxial cables in communications, instrumentation, aerospace, and industrial applications where bandwidth and low signal loss are critical.

As electronic products like cell phones and PDAs have become more compact, connectors to these products have also become smaller. Rather than using standard BNC connectors, today's technicians need smaller format connectors like SMA, SMB, MCX, and MCXX connector types.

To meet this demand, Pomona is introducing a family of 80 new Pomona RF connectors including SMA, SMB, MCX, and MCXX connectors and adapters.

Product Descriptions

SMA connectors and adapters

SMA stands for SubMiniature version A connector. It is threaded and offers excellent electrical performance from dc to 18 GHz with semi-rigid cable, dc to 12 GHz on flexible cables. These connectors are compact and very durable.

SMB connectors and adapters

SMB similarly stands for SubMiniature version B connector. It is smaller than an SMA connector, but with the added advantage of snap-on coupling rather than threads. SMB connectors are great for fast connect and disconnect requirements. Along with this easy connection ability, the SMB offers a bandwidth of 4 GHz.

MCX connectors and adapters

MCX coaxial RF connectors are 30% smaller than SMB connectors, yet have the same size inner contacts and dimensions. They feature easy snap-on connection and support a bandwidth from dc to 6 GHz. MCX connectors are used in applications requiring tight spacing and light weight.

MMCX connectors and adapters

MMCX coaxial RF connectors are even smaller than MCX connectors. They are micro-miniature connectors and offer a lock-snap connection with 360 degrees rotation. This capability offers the optimum in versatility for use on today's circuit boards. MMCX connectors have a bandwidth from dc to 6 GHz.

Like MCX connectors, MMCX connectors are used in applications where small size and light weight are critical. They are often used on Wi-Fi Mini PCI cards as antenna connectors.

Target customers

Function

- Electrical engineers and technicians
- OEM (original equipment manufacturers)


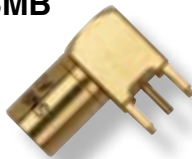


Application

- Design
- Test
- Service
- Instrumentation
- Communications Systems

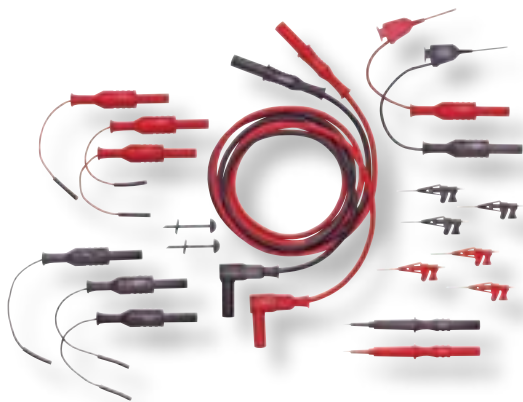
Comparative overview

	SMA	SMB	MCX	MMCX
Test and measurement	•	•		
Cable assemblies	•	•		
Instrumentation	•	•	•	•
Process control	•	•	•	
Communications including base stations	•	•	•	•
Automotive		•	•	
Telecom		•	•	•
PCMCIA cards				•
Military	•			
Computers			•	•
Wireless			•	•
GPS			•	•
Components				•

Specifications

	Electrical			Materials		
	Impedance	Frequency range	VSWR	Shell	Center contacts	Insulators
SMA 	50 Ω	0-12.4 GHz on flexible cable 0-18 GHz on semi-rigid cable	Straight 1.15 max Right angle 1.2 max	Gold-plated machined brass	Plug: brass Jack: beryllium copper All contacts gold-plated	PTFE
SMB 	50 Ω	0-4 GHz	1.3 max	Gold-plated machined brass	Plug: brass Jack: beryllium copper All contacts gold-plated	PTFE
MCX 	50 Ω	0-6 GHz	Straight 1.25 max at 4 GHz	Gold-plated machined brass	Plug: brass Jack: beryllium copper All contacts gold-plated	PTFE
MMCX 	50 Ω	0-6 GHz	Straight 1.15 Max	Gold-plated machined brass	Plug: brass Jack: beryllium copper All contacts gold-plated	PTFE

Don't Forget About These Other Pomona Products



New! SMD/Micro Format Test

Clips and leads designed for micro-test, including a variety of 2 mm connectors for use in tight spaces. From clips designed for chip pitches down to 0.008 in (0.2 mm), to patch cords, and even complete SMD test kits, Pomona has the connection you need.



New! Coaxial connectors, adapters and kits

Various connectors are used for interconnecting electronic systems. The choice of connector depends mainly on the maximum frequency the cable is to carry. Adapters are used to connect cables with different connectors; for example a BNC-to-N adapter might be used to connect a frequency synthesizer to an oscilloscope. In-series couplers are used to connect cables with the same connectors. Terminators are used to make sure cables end in the correct impedance, to reduce reflection of the signal.



New! Coaxial assemblies and breakouts

Coaxial cables are used to interconnect oscilloscopes, function generators, transmitters, antennae, test fixtures and other electronic subsystems. Coaxial cable has a conductor running through its center with a braided shield surrounding it. The conductor and the shield are separated by an insulating material and the entire cable is covered by an outer cover that insulates and protects the cable. Coaxial cable is carefully engineered to transmit electronic signals with great integrity.