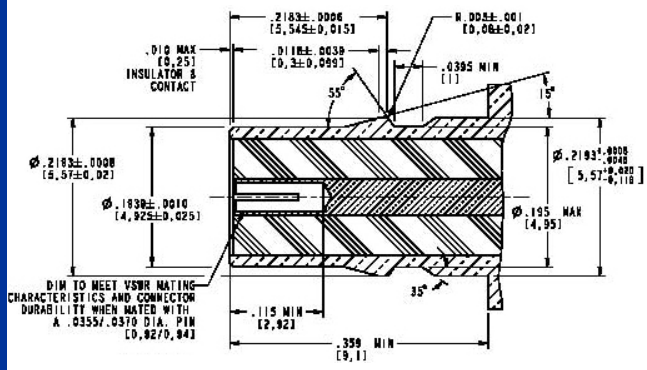
Amphenol® RF

QMA Connectors

Amphenol RF's QMA connector series is a quick disconnect version of the SMA connector. Instead of using a threaded coupling mechanism, a new snap-lock mechanism is used. This allows the QMA series to maintain very similar electrical performance, while providing the additional benefits of quicker installation and denser packaging solutions for your RF requirements.

930-108P-51S



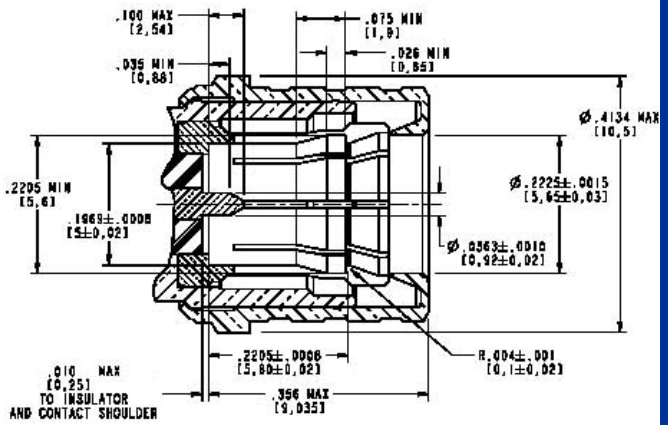
QMA Jack Interface

Applications:

- Base Stations
- Instrumentation
- Process Controls
- Cable Assemblies
- Mil/Aero
- Telecom
- Components
- PC/LAN

Features:

- Operates at the same electrical performance as SMA up to 6 GHz
- Snap-on interface for quick and easy installation (can be installed 10x faster that SMA)
- Snap-Lock mechanism removes requirement for wrench clearance, allowing for denser packaging
- Rotatable 360° after connection for flexibility with installation



QMA Plug Interface

QMA Connectors

Ordering Information:

Part Number Overview

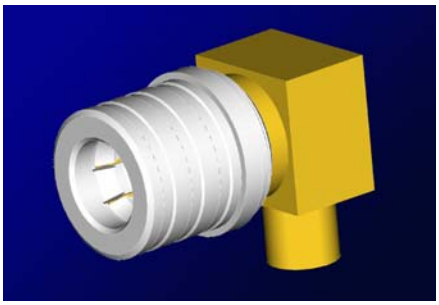
930-1XXY – 51Z

930: QMA Series
XX: Sequential #
Y: Connector Sex

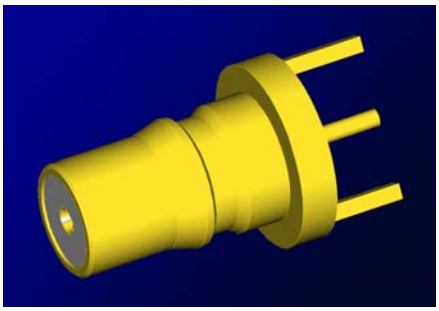
- P (Plug)
- J (Jack)

Z: Body Style

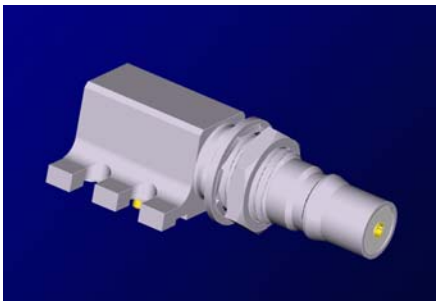
- S (Straight)
- A (Right Angle)



930-103P-51A



930-102J-51P



930-111J-51P

Available QMAs

Cable Plugs

930-103P-51A: R/A Plug for .141 Semi-Rigid
930-104P-51A: R/A Plug for .086 Semi-Rigid
930-106P-51A: R/A Plug for LMR240
930-108P-51S: Straight Plug for .141 Semi-Rigid
930-110P-51A: R/A Plug for RG58

Jacks

930-102J-51P: Straight Jack PCB Thru-Hole
930-105J-51P: Straight Jack Press Fit Receptacle
930-107J-51P: Straight Jack Surface Mount Thru-Hole
930-109J-51S: 4-Hole Flange Panel Mount Receptacle
930-111J-51P: Bulkhead R/A Surface Mount

Adapters

930-100A-51S: Jack to SMA Jack Adapter
930-101A-51S: Plug to SMA Jack Adapter

Item	Specification	Conditions
1. Impedance	50 Ω (Nominal)	
2. Frequency Range	DC to 6 GHz	
3. V.S. W. R. (Straight connectors)	1.05 max.	DC to 3 GHz
	1.12 max.	3 to 6 GHz
4. RF Leakage	-80 dB to 3 GHz	–70 dB to 6 GHz
5. Power Handling	125 W at 40°C	
6. Durability	100 cycles	
7. Engagement Force	25 N (5.6 lb) Typical	
8. Disengagement Force	20 N (4.5 lb) Typical	
9. Retention Force of Interface	60 N (13.5 lb) min	
10. Temperature Range	-40°C to +80°C	
11. Materials		
Body	White bronze over brass	
Solder Body	Gold over brass	
Pin Contact	Gold over brass	
Socket Contact	Gold over beryllium copper	
Outer Contact	White bronze over spring bronze	
Insulator	PTFE	
Crimp Ferrule	White bronze over copper	