

MH081 * SERIES

MICRO HIGH FREQUENCY RF CABLES

SPECIFICATIONS

For complete specifications see
www.samtec.com?MH081

Outer Contact Material:
Au plated Phosphor Bronze
Center Contact Material:
Au plated Phosphor Bronze (MHX)
Au plated BeCu (SMA)
Insulator Material:
PBT (MHX)
PTFE (SMA)
Operating Temperature:
-40°C to +90°C
Voltage Rating:
170V max
Dielectric Withstanding Voltage: 200 Vrms
Frequency Range:
0~3 GHz
Contact Resistance:
Center Contact: 6mΩ max
Outer Contact: 2mΩ max
Insulator Resistance:
5,000 MΩ
Impedance: 50Ω
RoHS Compliant: Yes

0.81 mm Cable:

Impedance: 50Ω
Capacitance: 100 pF/meter
Max Attenuation (cable only): 3.1dB @ 1 GHz
Conductor Size:
36 AWG, (0.81 mm) .032" dia.
Conductor Material:
Silver Plated Copper
Conductor Resistance:
1.40Ω/meter max
Insulator Diameter:
(0.4 mm) .016"
Insulator Material: FEP
Shield Material:
Silver Plated Copper
Jacket Material: FEP
Jacket Diameter:
(0.81 mm) .032" dia.
Bend Radius:
5.0 mm
Jacket Temp Rating:
-40°C to +90°C
RoHS Compliant: Yes

ALSO AVAILABLE (MOQ Required)

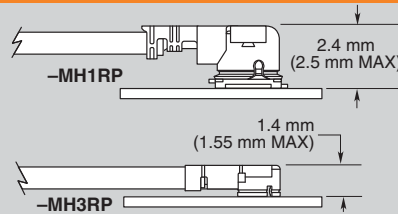
- Additional stripping and tinning options
 - Additional end connector combinations
 - Overall lengths
- Contact Samtec.

EXTRACTION TOOLS

- -MH1RP = RSP-122893-01
- -MH3RP = RSP-122893-02

* MH081 Series was previously RF081 Series

APPLICATION



U.FL and W.FL Types

Micro High Frequency RF, MHF or SMA Bulkhead

(0.81 mm) .032" Diameter Cable

Mating PCB connectors available

MATING SOLUTIONS

- Micro RF PCB connectors for Micro High Frequency RFs
- MH1RP end mates with RSP-122811-01 (Cycles: 30 max.)
- MH3RP end mates with RSP-122811-02

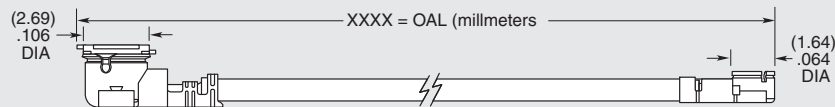
MH081

END 1 CONNECTOR

END 2 CONNECTOR

OVERALL LENGTH

Specify END OPTIONS from chart



-0030
= 1.18" (30 mm)

-0050
= 1.97" (50 mm)

-0100
= 3.94" (100 mm)

-0150
= 5.91" (150 mm)

-0300
= 11.81" (300 mm)

END OPTIONS

-MH1RP = MHF1 Type Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-MH3RP = MHF3 Type Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-01BJ1 = SMA Straight Bulkhead Jack -01BJ2 = SMA Straight Bulkhead Jack, Reversed Polarity	
-01SB1 = SMA Straight Jack, Sealed Bulkhead -01SR1 = SMA Straight Jack, Sealed Bulkhead, Reversed Polarity	
(30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-SING = Single Ended (End 2 callout)	
XXXXXX = Stripped & Tinned (End 2 callout)	

STRIPPED & TINNED (Dimensions in mm)

CALLOUT	A	B	C
-303030	3.0	3.0	3.0
-303040	3.0	3.0	4.0
-403030	4.0	3.0	3.0
-403040	4.0	3.0	4.0
-404040	4.0	4.0	4.0

Both center conductor and braid shield are stripped, only the center conductor is tinned.