



MH081* SERIES

MICRO HIGH FREQUENCY RF CABLES

SPECIFICATIONS

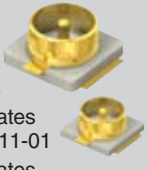
For complete specifications see www.samtec.com?MH081

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: -10°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

0,81mm Cable:
Impedance: 50Ω
Capacitance: 100pF/meter
Max Attenuation (cable only): 3.1dB @ 1GHz
Conductor Size: 36 AWG, (0,81mm) .032" dia.
Conductor Material: Silver Plated Copper
Conductor Resistance: 1.40Ω/meter max
Insulator Diameter: (0,4mm) .016"
Insulator Material: FEP
Shield Material: Silver Plated Copper
Jacket Material: FEP
Jacket Diameter: (0,81mm) .032" dia.
Jacket Temp Rating: -40°C to +90°C
RoHS Compliant: Yes

ALSO AVAILABLE

- Micro RF PCB connectors for Micro High Frequency RFs
- MH1RP end mates with RSP-122811-01
- MH3RP end mates with RSP-122811-02



Micro High Frequency RF, MHF or SMA Bulkhead

(0,81mm) .032" Diameter Cable

RF Cable Builder Quickly...Build a cable. Verify a part number. View print, Request price, Order sample...all online!

www.samtec.com/rfbuilder

Mating PCB connectors available



Specify END OPTIONS from chart

XXXX = OAL (millimeters)

(2,10) .083 (2,69) .106 DIA (6,96) .274 (1,64) .064 DIA (4,70) .185 (1,20) .047

Overall Length	Value
-0030	= 1.18" (30mm)
-0050	= 1.97" (50mm)
-0100	= 3.94" (100mm)
-0150	= 5.91" (150mm)
-0300	= 11.81" (300mm)

END OPTIONS	
-MH1RP = MHF1 Type Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)	
-MH3RP = MHF3 Type Plug (30μ" (0,76μm) 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" (0,76μm) 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. Call Samtec for other sizes or tinning options.

ALSO AVAILABLE

• Additional end connector combinations and overall lengths
 Contact: RFgroup@samtec.com

REMOVAL TOOL

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

* MH081 Series was previously RF081 Series

Due to technical progress, all designs, specifications and components are subject to change without notice.