



MH113* SERIES

MICRO HIGH FREQUENCY RF CABLES

SPECIFICATIONS

For complete specifications see www.samtec.com?MH113

- 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

- 1.13 mm Cable:**
- Impedance:** 50Ω
- Capacitance:**
95 pF/meter
- Max Attenuation (cable only):**
2dB @ 1 GHz
- Conductor Size:**
32 AWG, (1.13 mm) .045" dia.
- Conductor Material:**
Silver Plated Copper
- Conductor Resistance:**
0.60Ω/meter max
- Insulator Diameter:**
(0.66 mm) .026"
- Insulator Material:** FEP
- Shield Material:**
Tinned Copper
- Jacket Material:** FEP
- Jacket Diameter:**
(1.13 mm) .045" dia
- Bend Radius:**
6.8 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 TOOL

- -MH1RP = RSP-122893-01

* MH113 Series was previously RF113 Series

APPLICATION

-MH1RP

MATING SOLUTIONS

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

MH113

END 1 CONNECTOR

END 2 CONNECTOR

OVERALL LENGTH

Specify END OPTIONS from chart

END OPTIONS	
-MH1RP = MHF1 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)	
XXXXX = 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.

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