



MCX SERIES

50Ω MCX JACKS & PLUGS

Mates with:
RF174, RF316, RF178

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?MCX

Insulator Material:
PTFE

Contact Material:
BeCu, Brass (-P-TH)

Shell Material:
Brass

Operating Temp Range:
-65°C to +125°C

Insulation Resistance:
1000MΩ min

Contact Resistance:
Center: 5mΩ max

Outer: 2.5mΩ max

Impedance:
50Ω

V.S.W.R.:
1.3 max (-ST)

1.5 max (-RA)

Dielectric Withstanding Voltage:
1000 Vrms min, 50Hz

Dielectric Working Voltage:
335 Vrms max

Frequency Range:
0-6 GHz

RoHS Compliant:
Yes

Processing:
Lead-Free Solderable:

Yes

Processing:
Lead-Free Solderable:

Yes

| MCX | GENDER | TYPE | PLATING | ORIENTATION | TERMINATION |
|-----|---------------------|--------------------------|---|---|---|
| | -J = Jack | -P = PCB Mount | -H = 30μ" (0,76μm) Gold center contact, 3μ" (0,08μm) Gold outer contact | -RA = Right Angle -ST = Straight | -TH1 = Through-hole -SM1 = Surface Mount -EM1 = Edge Mount (-ST only) -MT1 = Mixed Technology (-ST only) |

| MCX | GENDER | TYPE | PLATING | ORIENTATION | TERMINATION |
|-----|---------------------|--------------------------|---|---|---|
| | -P = Plug | -P = PCB Mount | -H = 30μ" (0,76μm) Gold center contact, 3μ" (0,08μm) Gold outer contact | -RA = Right Angle -ST = Straight | -TH1 = Through-hole (-RA only) -TH2 = Elevated Through-hole (-ST only) |

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

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MMCX-CA, MCX-CA SERIES

50Ω MMCX & MCX COMPONENTS

SPECIFICATIONS

For complete specifications and assembly instructions see www.samtec.com?MMCX-CA

- Shell Material:** Brass
- Insulator Material:** PTFE
- Lead, Contact Socket and Outer Conductor Material:** BeCu with Au plating
- Center Contact:** Soldered
- Outer Ferrule:** Crimped
- Operating Temp Range:** -65°C to +125°C
- Insulation Resistance:** 1,000MΩ min
- Contact Resistance:** Center: 5mΩ Outer: 2.5mΩ
- Impedance:** 50Ω
- Dielectric Withstanding Voltage:** 500 Vrms, 50Hz
- Dielectric Working Voltage:** 170 Vrms, 50Hz
- Frequency Range:** 0~6 GHz (Cable dependent)

MMCX - **GENDER** - **TYPE** - **PLATING** - **ORIENTATION** - **TERMINATION**

| | | | | | | |
|---------------------|----------------------|--|-----------------------------|--------------------------|-----------------------------------|-------------------------------|
| -P = Plug | -C = Cable | -H = 30μ" (0,76μm) Gold center contact, 3μ" (0,08μm) Gold outer contact | -RA = Right Angle | -ST = Straight | -CA1 = RG 174/316 Cable | -CA2 = RG 178 Cable |
|---------------------|----------------------|--|-----------------------------|--------------------------|-----------------------------------|-------------------------------|

-ST-CA1 & -ST-CA2 **-RA-CA1 & -RA-CA2**

Supplied with pins and ferrules. See website for dimensions.

SPECIFICATIONS

For complete specifications and assembly instructions see www.samtec.com?MCX-CA

- Insulator Material:** PTFE
- Contact Material:** BeCu
- Shell and Pin Material:** Brass
- Center Contact:** Soldered
- Outer Ferrule:** Crimped
- Operating Temp Range:** -65°C to +125°C
- Insulation Resistance:** 1,000MΩ
- Contact Resistance:** Center: 5mΩ Outer: 2.5mΩ
- Impedance:** 50Ω
- Frequency Range:** 0~6 GHz (Cable dependent)
- V.S.W.R.:** 1.5 max (-RA) 1.3 max (-ST)
- Dielectric Withstanding Voltage:** 1,000 Vrms min, 50Hz
- Dielectric Working Voltage:** 335 Vrms max.

MCX - **GENDER** - **TYPE** - **PLATING** - **ORIENTATION** - **TERMINATION**

| | | | | | | | |
|---------------------|---------------------|----------------------|--|---------------------------------------|--------------------------|-----------------------------------|-------------------------------|
| -J = Jack | -P = Plug | -C = Cable | -H = 30μ" (0,76μm) Gold center contact, 3μ" (0,08μm) Gold outer contact | -RA = Right Angle (-P only) | -ST = Straight | -CA1 = RG 174/316 Cable | -CA2 = RG 178 Cable |
|---------------------|---------------------|----------------------|--|---------------------------------------|--------------------------|-----------------------------------|-------------------------------|

| TYPE (-ST) | E | F |
|------------|-------------|--------------|
| -J-CA1 | (4,50) .177 | (15,50) .610 |
| -J-CA2 | (4,78) .188 | (15,00) .591 |

-P-ST **-RA** **J-ST**

Supplied with pins and ferrules. See website for dimensions.

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