



**MCX SERIES**

# 50Ω MCX JACKS & PLUGS

Mates with:  
RF174, RF316, RF178

**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see [www.samtec.com?MCX](http://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

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

**MMCX-CA, MCX-CA SERIES**

# 50Ω MMCX & MCX COMPONENTS

**SPECIFICATIONS**

For complete specifications and assembly instructions see [www.samtec.com?MMCX-CA](http://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**

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

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

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