



**MCX7 SERIES**

# 75 Ω OPTIMIZED MCX JACKS & PLUGS

Mates with:

RF179, GRF7H-C

**SPECIFICATIONS**

For complete specifications and recommended PCB layouts see [www.samtec.com?MCX7-SM](http://www.samtec.com?MCX7-SM) or [www.samtec.com?MCX7-TH](http://www.samtec.com?MCX7-TH)

Shell Material: Brass

Contact Material: BeCu

Insulator Material: PTFE

Impedance:

ST = 75 Ω ±3 Ω

RA = 75 Ω ±4 Ω

Frequency Range:

0~6 GHz

Working Voltage:

170 Vrms max

Dielectric Withstanding:

500 Vrms min

Engagement Force:

4.5 lbs max (-ST only)

Disengagement Force:

2.3 lbs max (-ST only)

Operating Temperature:

-65 °C to +125 °C

RoHS Compliant:

Yes

**PROCESSING**

Lead-Free Solderable:

Yes

MCX7	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION	
	-P = Plug	-J = Jack	-P = PCB Mount	-H = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact	-ST = Straight -RA = Right-angle (-J-TH1 only)	-SM1 = Surface Mount (-ST only) -TH1 = Through-hole (-J only)

**SPECIFICATIONS**

For complete specifications and assembly instructions see [www.samtec.com?MCX7-CA](http://www.samtec.com?MCX7-CA)

Contact Material: Brass

Finger Shell Material: BeCu

Body Material: Brass

Insulator Material: PTFE

Center Contact: Soldered

Outer Ferrule: Crimped

Impedance:

75 Ω

Frequency Range:

0~6 GHz (-ST)

0~4.5 GHz (-RA)

Working Voltage:

170 Vrms max

Dielectric Withstanding:

500 Vrms min

Operating Temperature:

-65 °C to +125 °C

MCX7	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION	PACKAGING
	-P = Plug	-C = Cable	-H = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact	-ST = Straight -RA = Right-angle	-CA3 = RG 179 Cable	Leave blank for individually bagged. -B = Bulk Packaging

Supplied with pins and ferrules. See website for dimensions.