

**MCX7 SERIES**

# 75 Ω OPTIMIZED MCX JACKS & PLUGS

## 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

**Mates with:**  
RF179,  
GRF7H-C

-P  
= Plug

-J  
= Jack

-P  
= PCB  
Mount

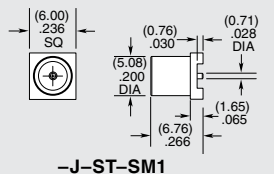
-H  
= 30 μ" (0.76 μm)  
Gold center  
contact,  
3 μ" (0.08 μm)  
Gold outer  
contact

-ST  
= Straight

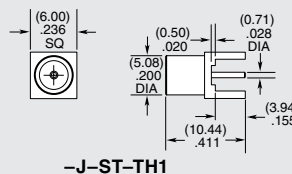
-RA  
= Right-angle  
(-J-TH1 only)

-SM1  
= Surface Mount  
(-ST only)

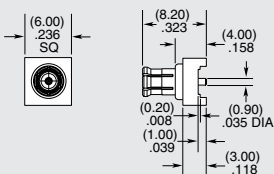
-TH1  
= Through-hole  
(-J only)



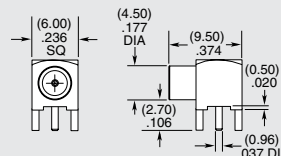
-J-ST-SM1



-J-ST-TH1



-P-ST-SM1



-J-RA-TH1

## 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

-P  
= Plug

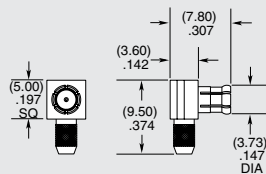
-C  
= Cable

-H  
= 30 μ" (0.76 μm)  
Gold center  
contact,  
3 μ" (0.08 μm)  
Gold outer  
contact

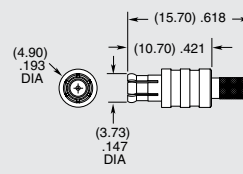
-ST  
= Straight

-RA  
= Right-angle

-CA3  
= RG 179 Cable



-P-RA



-P-ST

Supplied with pins and ferrules. See website for dimensions.