

MCX7 SERIES

75Ω OPTIMIZED MCX JACKS & PLUGS

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?MCX7-SM or www.samtec.com?MCX7-TH

Shell Material: Brass
Contact Material: BeCu
Insulator Material: PTFE
Impedance: ST = 75Ω ±3Ω
 RA = 75Ω ±4Ω
Frequency Range: 0-6 GHz
V.S.W.R: 1.3 max (With optimized launch design)
Working Voltage: 170 Vrms max
Dielectric Withstanding: 500 Vrms min
Contact Resistance: Center Contact: 5mΩ max
 Outer Contact: 2.5mΩ max
Insulator Resistance: 1000 MΩ 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

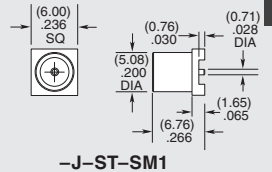
Mates with:
 RF179,
 GRF7H-C

-P
= Plug
-J
= Jack

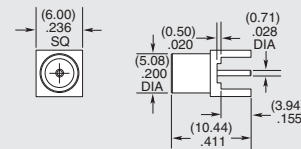
-P
= PCB Mount
-H
= 30μ" (0.76 μm) Gold center contact,
 3μ" (0.08 μm) Gold outer contact

-ST
= Straight
-RA
= Right Angle (-J-TH1 only)

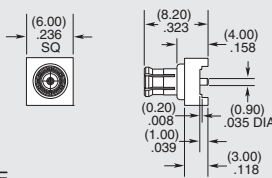
-SM1
= Surface Mount (-ST only)
-TH1
= Through-hole (-J only)



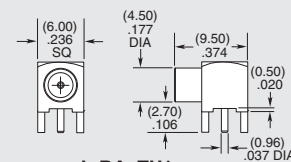
-J-ST-SM1



-J-ST-TH1



-P-ST-SM1



-J-RA-TH1

Note: Designed to meet SMPTE 424M 3G-SDI specifications.

SPECIFICATIONS

For complete specifications and assembly instructions see 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: 75Ω
Frequency Range: 0-6 GHz (-ST)
 0-4.5 GHz (-RA)
V.S.W.R: 1.3 max
Working Voltage: 170 Vrms max
Dielectric Withstanding: 500 Vrms min
Contact Resistance: Center Contact: 5mΩ max
 Outer Contact: 2.5mΩ max
Insulator Resistance: 1,000 MΩ min
Operating Temperature: -65°C to +125°C

MCX7

GENDER

TYPE

PLATING

ORIENTATION

TERMINATION

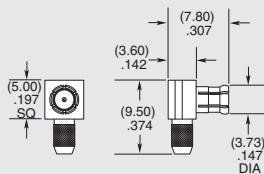
-P
= Plug

-C
= Cable

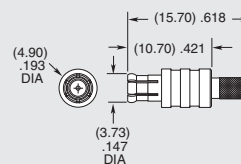
-H
= 30μ" (0.76 μm) Gold center contact,
 3μ" (0.08 μm) Gold outer contact

-ST
= Straight
-RA
= Right Angle

-CA3
= RG 179 Cable



-P-RA



-P-ST

Note: Designed to meet SMPTE 424M 3G-SDI specifications.

Supplied with pins and ferrules. See website for dimensions.