

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

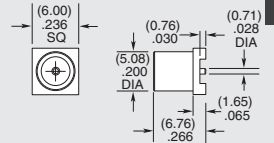
- P = Plug
- J = Jack

- P = PCB Mount

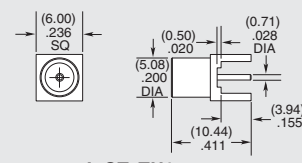
- H = 30μ" (0.76 μm) Gold center contact, 3μ" (0.08 μm) Gold outer contact

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

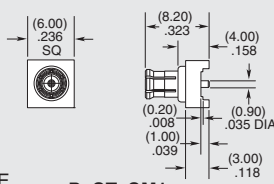
- SM1 = Surface Mount (-ST only)
- TH1 = Through-hole (-J only)



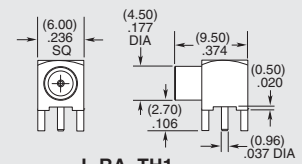
-J-ST-SM1



-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

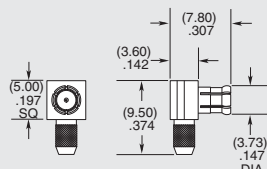
- P = Plug

- C = Cable

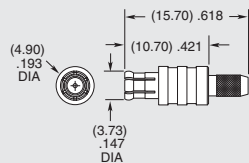
- H = 30μ" (0.76 μm) Gold center contact, 3μ" (0.08 μm) Gold outer contact

- 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.