



**MMCX SERIES**

# 50 Ω MMCX MICRO-MINI JACKS & PLUGS

**Mates with:**  
RF174, RF316, RF178,  
RS316, GRF1H-C

**SPECIFICATIONS**

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

- Contact Material:** BeCu
- Insulator Material:** PTFE
- Pin and Shell Material:** Brass
- Operating Temp Range:** -65 °C to +125 °C
- Impedance:** 50 Ω
- Dielectric Withstanding Voltage:** 500 Vrms, 50 Hz
- Dielectric Working Voltage:** 170 Vrms, 50Hz
- Frequency Range:** 0-6 GHz
- RoHS Compliant:** Yes

**PROCESSING**

**Lead-Free Solderable:** Yes

MMCX	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	<b>-J</b> = Jack	<b>-P</b> = PCB Mount	<b>-H</b> = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact	<b>-RA</b> = Right-angle <b>-ST</b> = Straight	<b>-TH1</b> = Through-hole <b>-MT1</b> = Mixed Technology (-ST only) <b>-SM1</b> = Surface Mount <b>-EM1</b> = Edge Mount (-ST only)

**OTHER SOLUTIONS**

- High Vibration jacks and plugs. These connectors are not interchangeable with the MMCX.
  - MMCX Jack that switches from internal to external antenna when cable is mated.
- Contact Samtec.

**Notes:**  
Random vibration and Resonant Search test reports available online.

75 Ω version available. See MMCX7 Series.

MMCX	GENDER	TYPE	PLATING	ORIENTATION	TERMINATION
	<b>-P</b> = Plug	<b>-P</b> = PCB Mount	<b>-H</b> = 30 μ" (0.76 μm) Gold center contact, 3 μ" (0.08 μm) Gold outer contact	<b>-RA</b> = Right-angle <b>-ST</b> = Straight	<b>-TH1</b> = Through-hole <b>-MT1</b> = Mixed Technology (-ST only) <b>-SM1</b> = Surface Mount (-ST only) <b>-EM1</b> = Edge Mount (-ST only)

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.