



MMCX SERIES

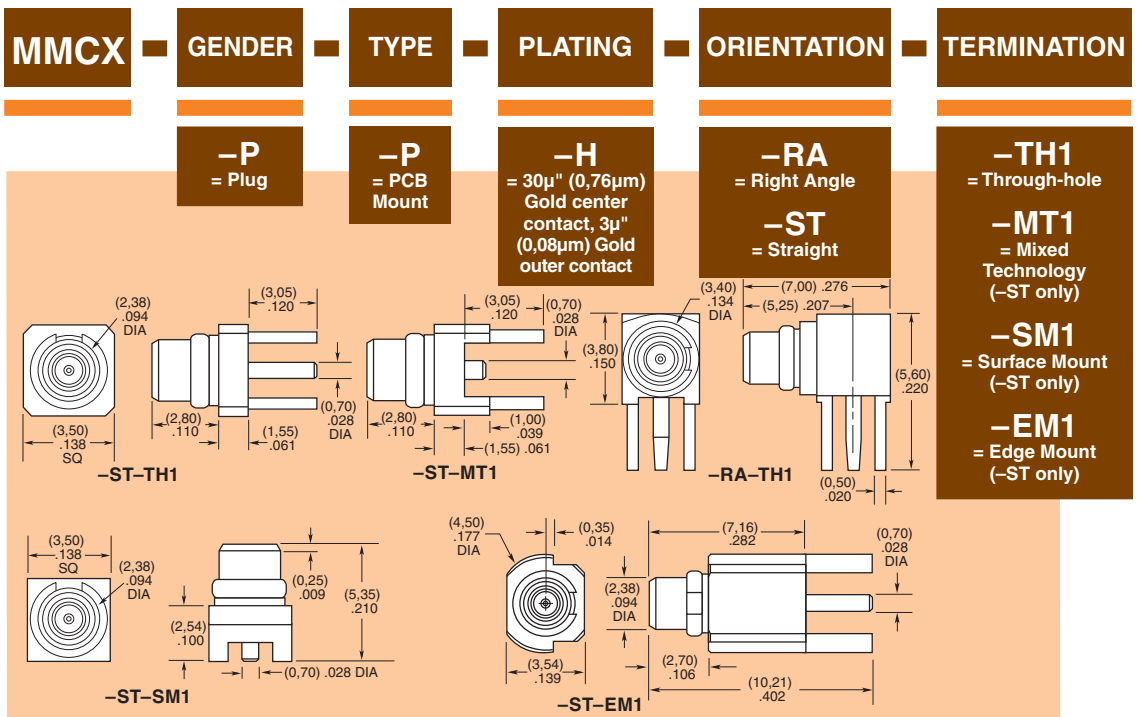
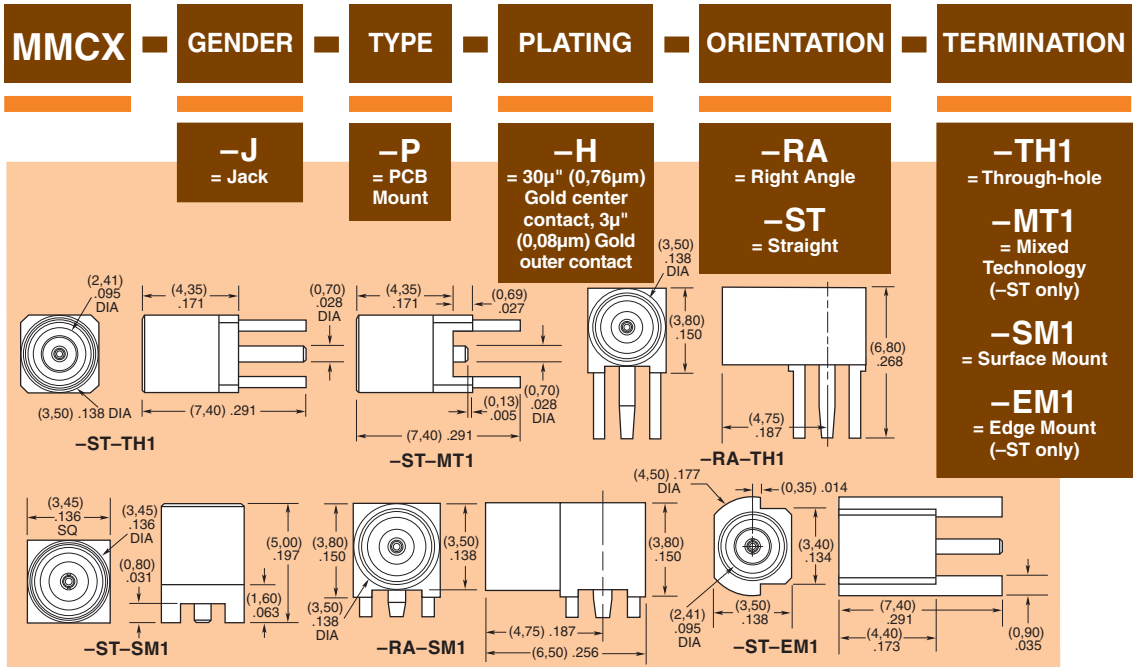
50Ω MMCX JACKS & PLUGS

Mates with:
RF174, RF316, RF178

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/MMCX

- Contact Material:** BeCu
- Insulator Material:** PTFE
- Pin and Shell Material:** Brass
- Operating Temp Range:** -65°C to +125°C
- Insulation Resistance:** 1000MΩ min
- Contact Resistance:** Center: 5mΩ
Outer: 2.5mΩ
- Impedance:** 50Ω
- Dielectric Withstanding Voltage:** 500 Vrms, 50Hz
- Dielectric Working Voltage:** 170 Vrms, 50Hz
- V.S.W.R.:** 1.3 max (-EM, -ST-SM1)
1.5 max (-RA-SM1)
- Frequency Range:** 0-6 GHz
- RoHS Compliant:** Yes
- Processing:** Lead-Free Solderable
Yes



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

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC SILICON VALLEY • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329
 SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0
 SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 8890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292 SAMTEC ISRAEL • Tel: 972-3-7526600
 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-61103766 SAMTEC TAIWAN • Tel: 886-2-2735-6109
 Downloaded from Elcodis.com electrosmc.hk.hongkong • Tel: 852-2600-9858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9512 7747 SAMTEC SOUTH AFRICA • Tel: 27 11 452 8112

MMCX-CA, MCX-CA SERIES

50Ω MMCX & MCX COMPONENTS

SPECIFICATIONS

For complete specifications and assembly instructions see www.samtec.com?MMCX-CA

- Shell Material:** Brass
- Insulator Material:** PTFE
- Lead, Contact Socket and Outer Conductor Material:** BeCu with Au plating
- Center Contact:** Soldered
- Outer Ferrule:** Crimped
- Operating Temp Range:** -65°C to +125°C
- Insulation Resistance:** 1,000MΩ min
- Contact Resistance:** Center: 5mΩ Outer: 2.5mΩ
- Impedance:** 50Ω
- Dielectric Withstanding Voltage:** 500 Vrms, 50Hz
- Dielectric Working Voltage:** 170 Vrms, 50Hz
- Frequency Range:** 0~6 GHz (Cable dependent)

MMCX GENDER TYPE PLATING ORIENTATION TERMINATION

| | | | | | | |
|---------------------|----------------------|--|-----------------------------|--------------------------|-----------------------------------|-------------------------------|
| -P = Plug | -C = Cable | -H = 30μ" (0,76μm) Gold center contact, 3μ" (0,08μm) Gold outer contact | -RA = Right Angle | -ST = Straight | -CA1 = RG 174/316 Cable | -CA2 = RG 178 Cable |
|---------------------|----------------------|--|-----------------------------|--------------------------|-----------------------------------|-------------------------------|

-ST-CA1 & -ST-CA2 **-RA-CA1 & -RA-CA2**

Supplied with pins and ferrules. See website for dimensions.

SPECIFICATIONS

For complete specifications and assembly instructions see www.samtec.com?MCX-CA

- Insulator Material:** PTFE
- Contact Material:** BeCu
- Shell and Pin Material:** Brass
- Center Contact:** Soldered
- Outer Ferrule:** Crimped
- Operating Temp Range:** -65°C to +125°C
- Insulation Resistance:** 1,000MΩ
- Contact Resistance:** Center: 5mΩ Outer: 2.5mΩ
- Impedance:** 50Ω
- Frequency Range:** 0~6 GHz (Cable dependent)
- V.S.W.R.:** 1.5 max (-RA) 1.3 max (-ST)
- Dielectric Withstanding Voltage:** 1,000 Vrms min, 50Hz
- Dielectric Working Voltage:** 335 Vrms max.

MCX GENDER TYPE PLATING ORIENTATION TERMINATION

| | | | | | | | |
|---------------------|---------------------|----------------------|--|---------------------------------------|--------------------------|-----------------------------------|-------------------------------|
| -J = Jack | -P = Plug | -C = Cable | -H = 30μ" (0,76μm) Gold center contact, 3μ" (0,08μm) Gold outer contact | -RA = Right Angle (-P only) | -ST = Straight | -CA1 = RG 174/316 Cable | -CA2 = RG 178 Cable |
|---------------------|---------------------|----------------------|--|---------------------------------------|--------------------------|-----------------------------------|-------------------------------|

| TYPE (-RA) | A | B |
|------------|-------------|--------------|
| -P-CA1 | (7,78) .306 | (9,50) .374 |
| -P-CA2 | (8,58) .338 | (10,00) .394 |

| TYPE (-ST) | E | F |
|------------|-------------|--------------|
| -J-CA1 | (4,50) .177 | (15,50) .610 |
| -J-CA2 | (4,78) .188 | (15,00) .591 |

Supplied with pins and ferrules. See website for dimensions.

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