

## RF Connectors

**KLS**electronic  
www.cnkls.com

### MMCX Connector Series

#### KLS1-MMCX001 MMCX Connector Series

##### Electrical Specifications

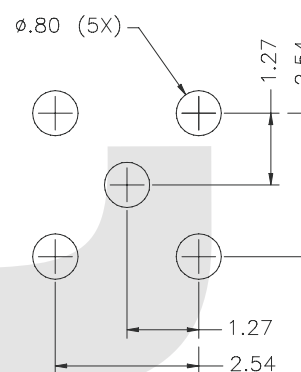
Impedance: 50  $\Omega$   
Frequency Range: DC - 6 GHz  
VSWR: 1.15 max. @ DC - 4 GHz  
1.40 max. @ 4 - 6 GHz  
RF-Leakage: 60 dB minimum @ 1 GHz (flexible cable)  
70 dB minimum @ 1 GHz (semi-rigid cable)  
Voltage Rating (at sea level): 170 Vrms Max.  
Contact Resistance: center contact: 10 m $\Omega$  Max.  
outer contact: 5 m $\Omega$  Max.  
Insulation Resistance: 1,000 M $\Omega$  Min.  
Dielectric Withstanding Voltage: 500 Vrms (at sea level)

##### Mechanical

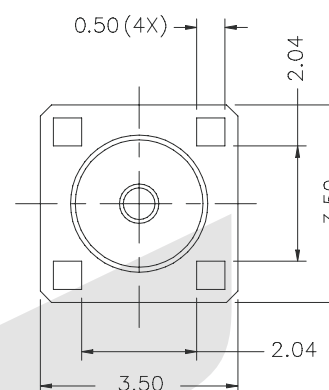
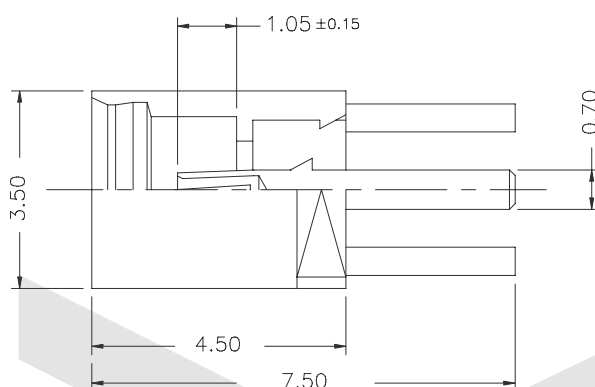
Mating: Snap-on coupling  
Contact Captivation: 2.3 lbs  
Engagement Force: 3.4 lbs (15N) Max.  
Disengagement Force: 1.4 lbs (6N) Min.  
Durability (matings): 500 cycles Min.  
Temperature Range: -55°C to +155°C

##### Material

Body and Outer Contacts: Brass, nickel or gold plated  
Male Contact: Brass, gold plated  
Female Contact: Beryllium copper or phosphor bronze, gold plated  
Crimp Ferrule: Copper or brass, nickel plated  
Insulator: LCP, PTFE or PFA



PCB MOUNTING HOLES



### ORDER INFORMATION

Product NO.: KLS1-MMCX001

Pos. NO. \_\_\_\_\_

MMCX Connector Type \_\_\_\_\_

All specification & dimensions are subject to change, please call your nearest KLS sales representative for update information

## MMCX Connector Series

### KLS1-MMCX002 MMCX Connector Series

#### Electrical Specifications

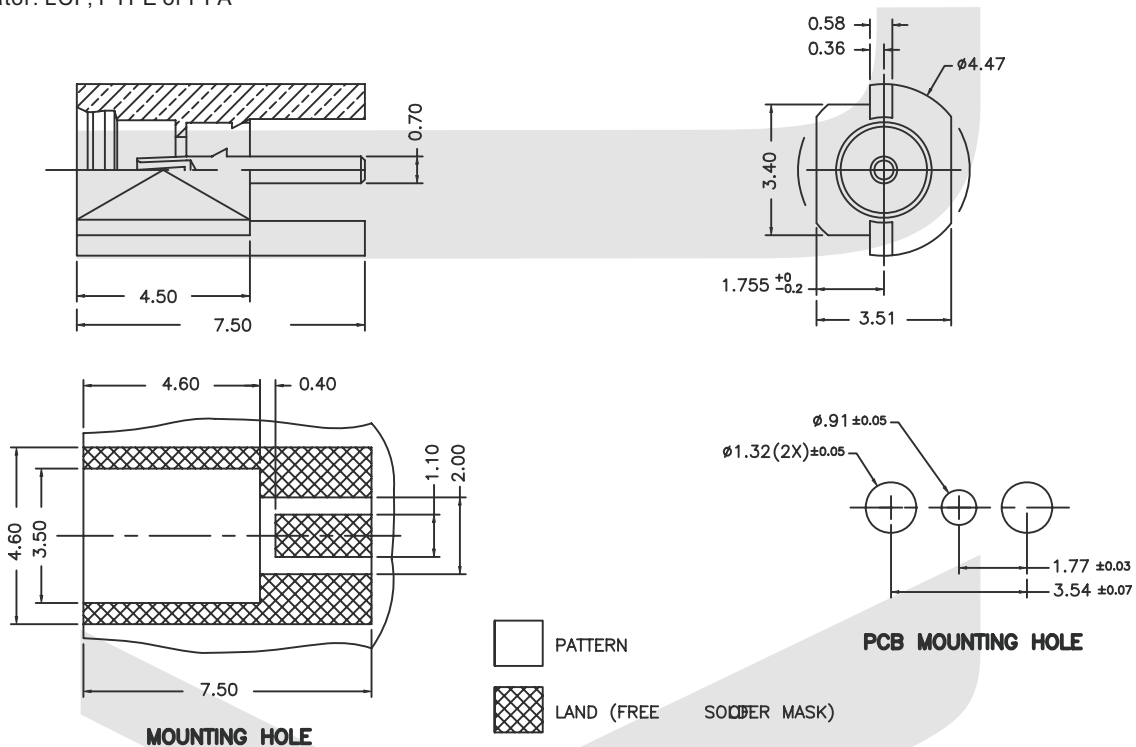
Impedance: 50  $\Omega$   
Frequency Range: DC - 6 GHz  
VSWR: 1.15 max. @ DC - 4 GHz  
1.40 max. @ 4 - 6 GHz  
RF-Leakage: 60 dB minimum @ 1 GHz (flexible cable)  
70 dB minimum @ 1 GHz (semi-rigid cable)  
Voltage Rating (at sea level): 170 Vrms Max.  
Contact Resistance: center contact: 10 m $\Omega$  Max.  
outer contact: 5 m $\Omega$  Max.  
Insulation Resistance: 1,000 M $\Omega$  Min.  
Dielectric Withstanding Voltage: 500 Vrms (at sea level)

#### Mechanical

Mating: Snap-on coupling  
Contact Captivation: 2.3 lbs  
Engagement Force: 3.4 lbs (15N) Max.  
Disengagement Force: 1.4 lbs (6N) Min.  
Durability (matings): 500 cycles Min.  
Temperature Range: -55°C to +155°C

#### Material

Body and Outer Contacts: Brass, nickel or gold plated  
Male Contact: Brass, gold plated  
Female Contact: Beryllium copper or phosphor bronze, gold plated  
Crimp Ferrule: Copper or brass, nickel plated  
Insulator: LCP, PTFE or PFA



## ORDER INFORMATION

Product NO.: KLS1-MMCX002

Pos. NO. \_\_\_\_\_  
MMCX Connector Type \_\_\_\_\_

### MMCX Connector Series

#### KLS1-MMCX003 MMCX Connector Series

##### Electrical Specifications

Impedance: 50  $\Omega$   
Frequency Range: DC - 6 GHz  
VSWR: 1.15 max. @ DC - 4 GHz  
1.40 max. @ 4 - 6 GHz  
RF-Leakage: 60 dB minimum @ 1 GHz (flexible cable)  
70 dB minimum @ 1 GHz (semi-rigid cable)  
Voltage Rating (at sea level): 170 Vrms Max.  
Contact Resistance: center contact: 10 m $\Omega$  Max.  
outer contact: 5 m $\Omega$  Max.  
Insulation Resistance: 1,000 M $\Omega$  Min.  
Dielectric Withstanding Voltage: 500 Vrms (at sea level)

##### Mechanical

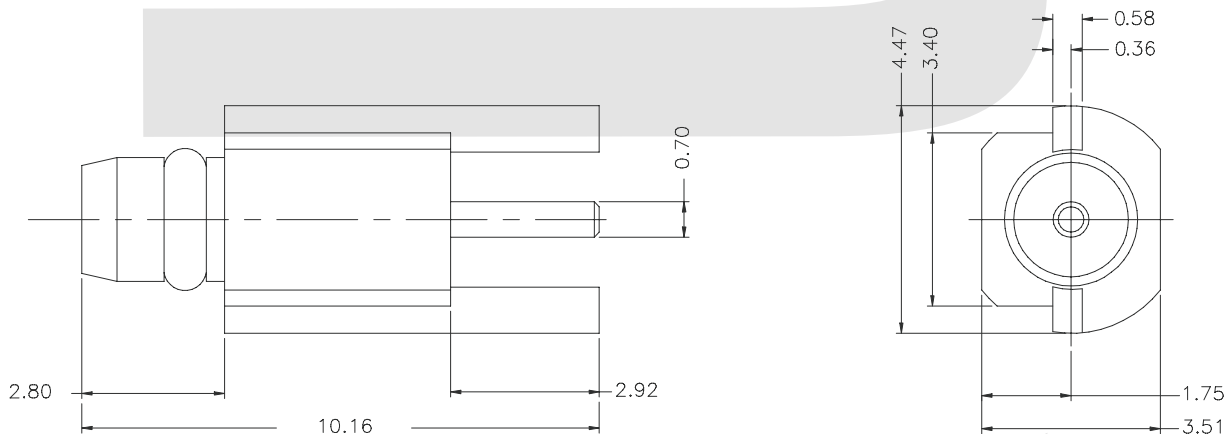
Mating: Snap-on coupling  
Contact Captivation: 2.3 lbs  
Engagement Force: 3.4 lbs (15N) Max.  
Disengagement Force: 1.4 lbs (6N) Min.  
Durability (matings): 500 cycles Min.  
Temperature Range: -55°C to +155°C

##### Material

Body and Outer Contacts: Brass, nickel or gold plated  
Male Contact: Brass, gold plated  
Female Contact: Beryllium copper or phosphor bronze, gold plated  
Crimp Ferrule: Copper or brass, nickel plated  
Insulator: LCP, PTFE or PFA



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### ORDER INFORMATION

Product NO.: KLS1-MMCX003

Pos. NO. \_\_\_\_\_  
MMCX Connector Type \_\_\_\_\_

## MMCX Connector Series

### KLS1-MMCX004 MMCX Connector Series

#### Electrical Specifications

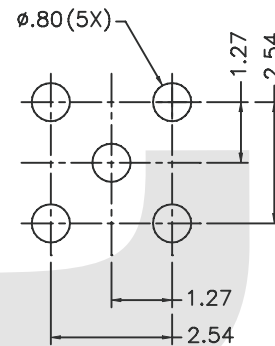
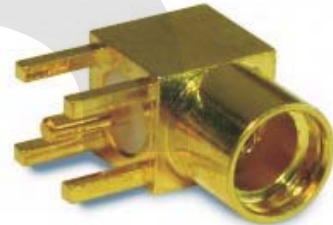
Impedance: 50  $\Omega$   
Frequency Range: DC - 6 GHz  
VSWR: 1.15 max. @ DC - 4 GHz  
1.40 max. @ 4 - 6 GHz  
RF-Leakage: 60 dB minimum @ 1 GHz (flexible cable)  
70 dB minimum @ 1 GHz (semi-rigid cable)  
Voltage Rating (at sea level): 170 Vrms Max.  
Contact Resistance: center contact: 10 m $\Omega$  Max.  
outer contact: 5 m $\Omega$  Max.  
Insulation Resistance: 1,000 M $\Omega$  Min.  
Dielectric Withstanding Voltage: 500 Vrms (at sea level)

#### Mechanical

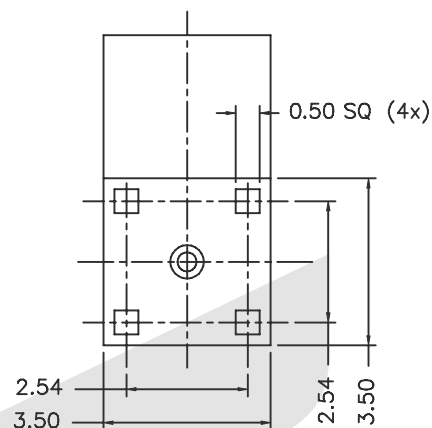
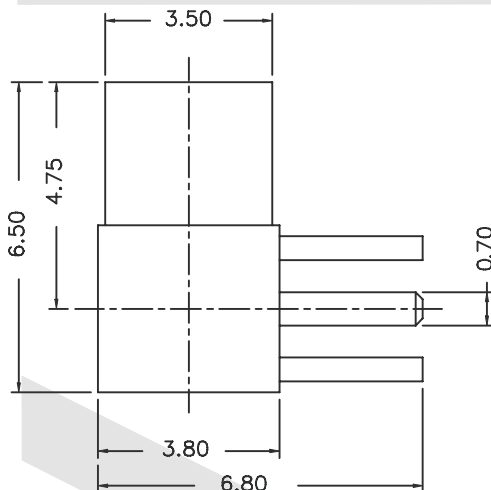
Mating: Snap-on coupling  
Contact Captivation: 2.3 lbs  
Engagement Force: 3.4 lbs (15N) Max.  
Disengagement Force: 1.4 lbs (6N) Min.  
Durability (matings): 500 cycles Min.  
Temperature Range: -55°C to +155°C

#### Material

Body and Outer Contacts: Brass, nickel or gold plated  
Male Contact: Brass, gold plated  
Female Contact: Beryllium copper or phosphor bronze, gold plated  
Crimp Ferrule: Copper or brass, nickel plated  
Insulator: LCP, PTFE or PFA



PCB MOUNTING HOLES



## ORDER INFORMATION

Product NO.: KLS1-MMCX004

Pos. NO. \_\_\_\_\_  
MMCX Connector Type \_\_\_\_\_

## MMCX Connector Series

### KLS1-MMCX005 MMCX Connector Series

#### Electrical Specifications

Impedance: 50  $\Omega$   
 Frequency Range: DC - 6 GHz  
 VSWR: 1.15 max. @ DC - 4 GHz  
 1.40 max. @ 4 - 6 GHz  
 RF-Leakage: 60 dB minimum @ 1 GHz (flexible cable)  
 70 dB minimum @ 1 GHz (semi-rigid cable)  
 Voltage Rating (at sea level): 170 Vrms Max.  
 Contact Resistance: center contact: 10 m $\Omega$  Max.  
 outer contact: 5 m $\Omega$  Max.  
 Insulation Resistance: 1,000 M $\Omega$  Min.  
 Dielectric Withstanding Voltage: 500 Vrms (at sea level)

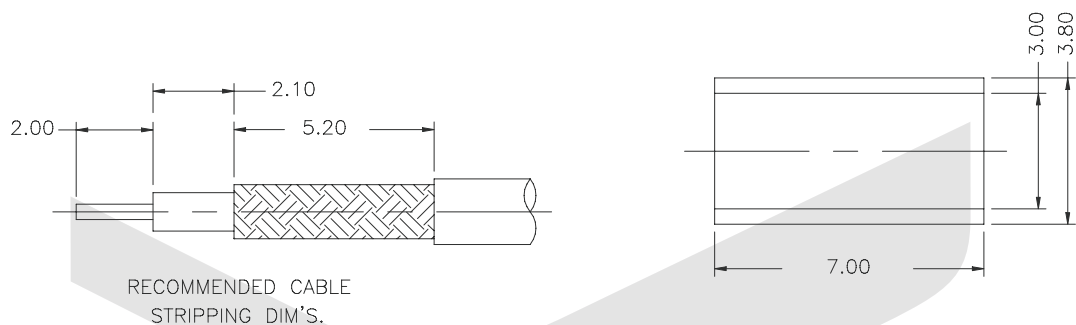
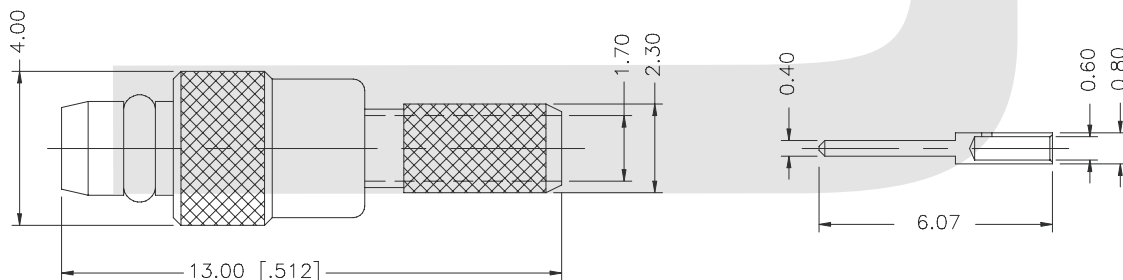
#### Mechanical

Mating: Snap-on coupling  
 Contact Captivation: 2.3 lbs  
 Engagement Force: 3.4 lbs (15N) Max.  
 Disengagement Force: 1.4 lbs (6N) Min.  
 Durability (matings): 500 cycles Min.  
 Temperature Range: -55°C to +155°C

#### Material

Body and Outer Contacts: Brass, nickel or gold plated  
 Male Contact: Brass, gold plated  
 Female Contact: Beryllium copper or phosphor bronze, gold plated  
 Crimp Ferrule: Copper or brass, nickel plated  
 Insulator: LCP, PTFE or PFA

Cable Group: RG-174, RG-188A, RG-316



RECOMMENDED CABLE  
STRIPPING DIM'S.

## ORDER INFORMATION

Product NO.: KLS1-MMCX005

Pos. NO. \_\_\_\_\_  
 MMCX Connector Type \_\_\_\_\_

## MMCX Connector Series

### KLS1-MMCX006 MMCX Connector Series

#### Electrical Specifications

Impedance: 50  $\Omega$   
Frequency Range: DC - 6 GHz  
VSWR: 1.15 max. @ DC - 4 GHz  
1.40 max. @ 4 - 6 GHz  
RF-Leakage: 60 dB minimum @ 1 GHz (flexible cable)  
70 dB minimum @ 1 GHz (semi-rigid cable)  
Voltage Rating (at sea level): 170 Vrms Max.  
Contact Resistance: center contact: 10 m $\Omega$  Max.  
outer contact: 5 m $\Omega$  Max.  
Insulation Resistance: 1,000 M $\Omega$  Min.  
Dielectric Withstanding Voltage: 500 Vrms (at sea level)

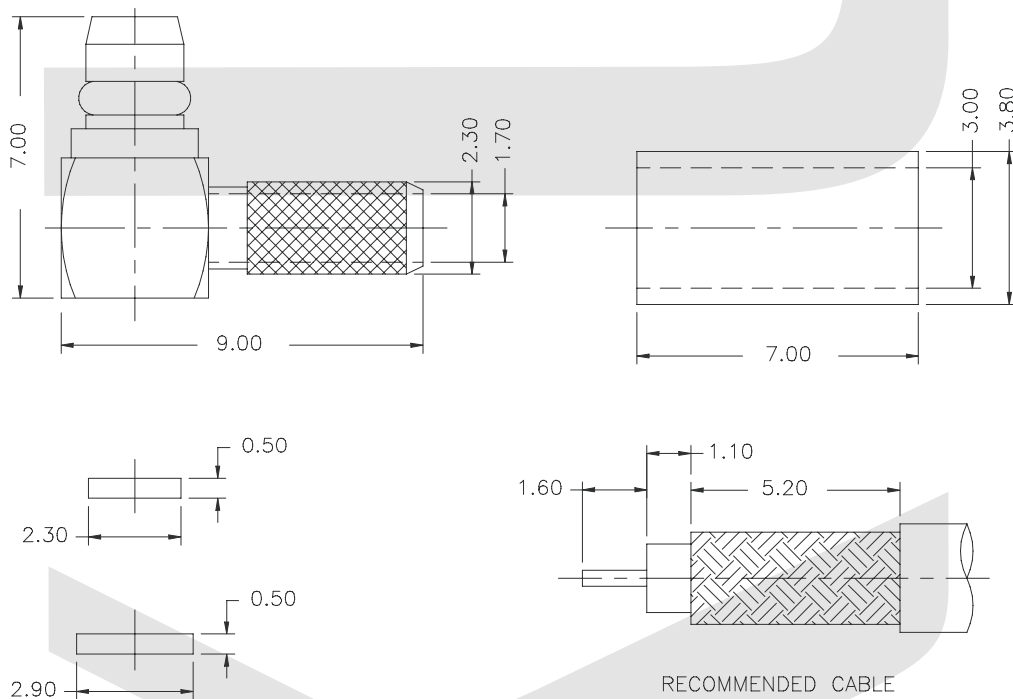
#### Mechanical

Mating: Snap-on coupling  
Contact Captivation: 2.3 lbs  
Engagement Force: 3.4 lbs (15N) Max.  
Disengagement Force: 1.4 lbs (6N) Min.  
Durability (matings): 500 cycles Min.  
Temperature Range: -55°C to +155°C

#### Material

Body and Outer Contacts: Brass, nickel or gold plated  
Male Contact: Brass, gold plated  
Female Contact: Beryllium copper or phosphor bronze, gold plated  
Crimp Ferrule: Copper or brass, nickel plated  
Insulator: LCP, PTFE or PFA

Cable Group: RG-174, RG-188A, RG-316



## ORDER INFORMATION

Product NO.: KLS1-MMCX006

Pos. NO. \_\_\_\_\_

MMCX Connector Type \_\_\_\_\_