

RF Connectors

KLSelectronic
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MCX Connector Series

KLS1-MCX001 MCX Connector Series

Electrical Specifications

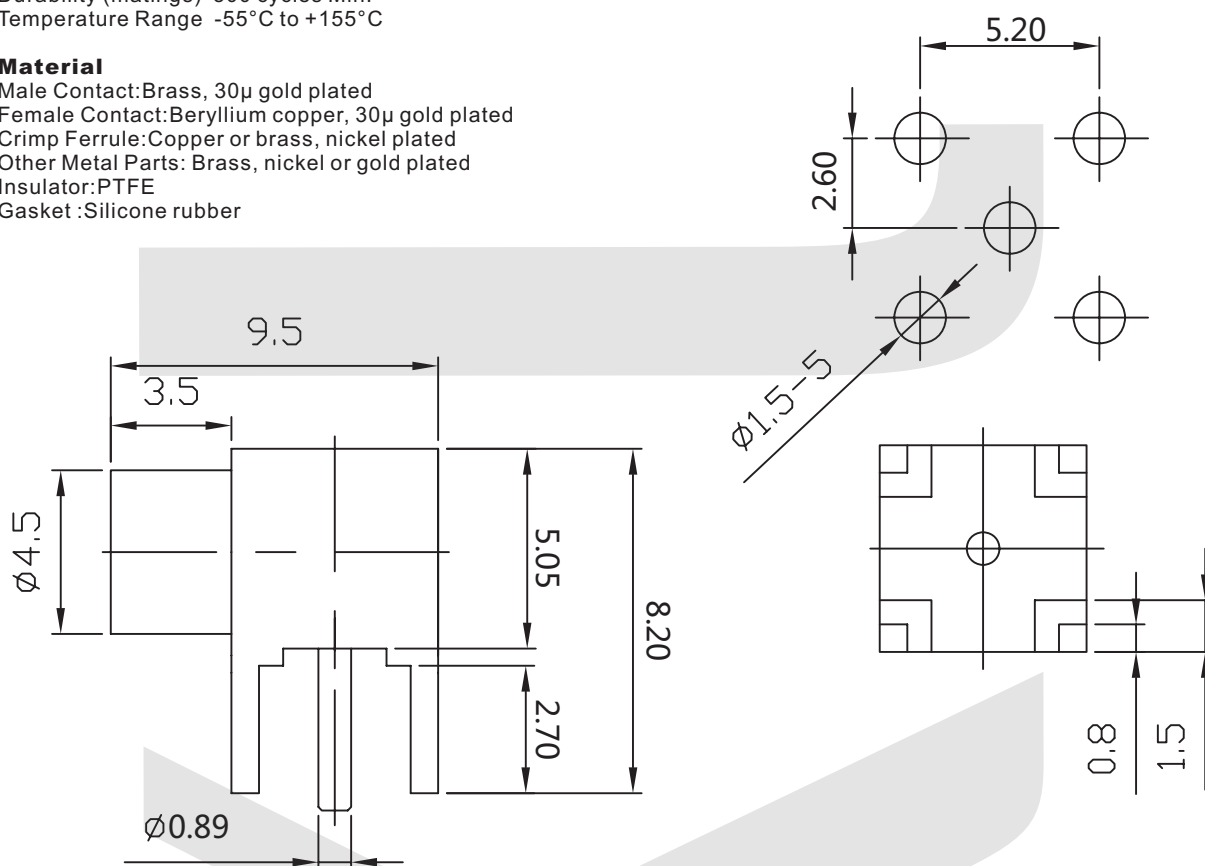
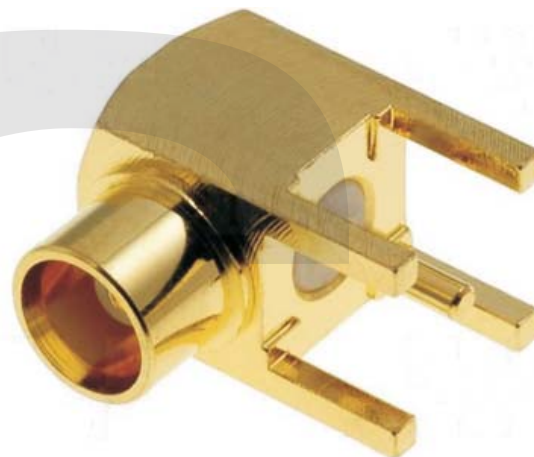
Impedance: 50Ω
Frequency Range: DC - 6 GHz
VSWR: 1.06 max. @ DC - 2.5 GHz (straight)
1.1 max. @ DC - 2.5 GHz (right angle)
RF-Leakage : 60 dB Min. @ 1 GHz (flexible cable)
70 dB Min. @ 1 GHz (semi-rigid cable)
Voltage Rating (at sea level): 335 Vrms Min.
Contact Resistance: Center Contact: 5 mΩ Max.
Outer Contact: 2.5 mΩ Max.
Insulation Resistance: 10,000 MΩ Min.
Insertion Loss Max.: 0.10 dB @ 1 GHz
Dielectric Withstanding Voltage: 1,000 Vrms (at sea level)

Mechanical

Mating: Snap-on coupling
Braid/Jacket Cable Affixment: Hex crimp
Center Conductor Cable Affixment: Solder
Contact Captivation: 2.3 lbs (10N) Min.
Engagement Force : 5.6 lbs (25N) Max.
Disengagement Force: 2.3 lbs (10N) Min.
Durability (matings) 500 cycles Min.
Temperature Range -55°C to +155°C

Material

Male Contact: Brass, 30μ gold plated
Female Contact: Beryllium copper, 30μ gold plated
Crimp Ferrule: Copper or brass, nickel plated
Other Metal Parts: Brass, nickel or gold plated
Insulator: PTFE
Gasket : Silicone rubber



ORDER INFORMATION

Product NO.: KLS1-MCX001

Pos. NO. _____

MCX Connector Type _____

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

MCX Connector Series

KLS1-MCX002 MCX Connector Series

Electrical Specifications

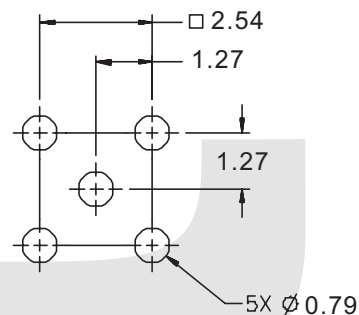
Impedance: 50Ω
Frequency Range: DC - 6 GHz
VSWR: 1.06 max. @ DC - 2.5 GHz (straight)
1.1 max. @ DC - 2.5 GHz (right angle)
RF-Leakage : 60 dB Min. @ 1 GHz (flexible cable)
70 dB Min. @ 1 GHz (semi-rigid cable)
Voltage Rating (at sea level): 335 Vrms Min.
Contact Resistance: Center Contact: 5 mΩ Max.
Outer Contact: 2.5 mΩ Max.
Insulation Resistance: 10,000 MΩ Min.
Insertion Loss Max.: 0.10 dB @ 1 GHz
Dielectric Withstanding Voltage: 1,000 Vrms (at sea level)

Mechanical

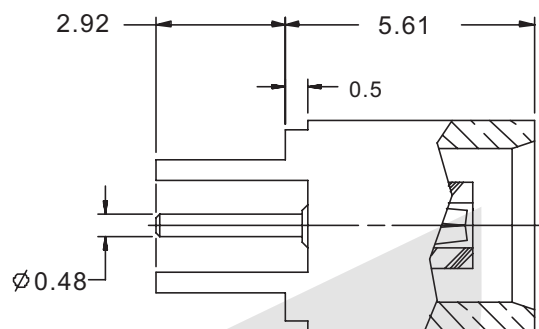
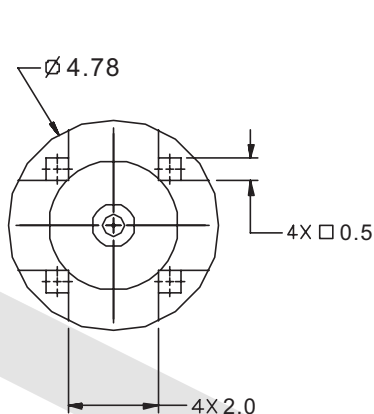
Mating: Snap-on coupling
Braid/Jacket Cable Affixment: Hex crimp
Center Conductor Cable Affixment: Solder
Contact Captivation: 2.3 lbs (10N) Min.
Engagement Force : 5.6 lbs (25N) Max.
Disengagement Force: 2.3 lbs (10N) Min.
Durability (matings) 500 cycles Min.
Temperature Range -55°C to +155°C

Material

Male Contact: Brass, 30μ gold plated
Female Contact: Beryllium copper, 30μ gold plated
Crimp Ferrule: Copper or brass, nickel plated
Other Metal Parts: Brass, nickel or gold plated
Insulator: PTFE
Gasket : Silicone rubber



MOUNTING HOLE LAYOUT



ORDER INFORMATION

Product NO.: KLS1-MCX002

Pos. NO. _____

MCX Connector Type _____

MCX Connector Series

KLS1-MCX003 MCX Connector Series

Electrical Specifications

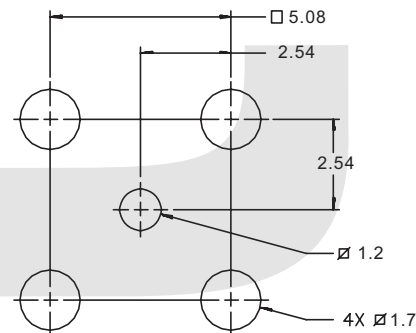
Impedance: 50Ω
Frequency Range: DC - 6 GHz
VSWR: 1.06 max. @ DC - 2.5 GHz (straight)
1.1 max. @ DC - 2.5 GHz (right angle)
RF-Leakage : 60 dB Min. @ 1 GHz (flexible cable)
70 dB Min. @ 1 GHz (semi-rigid cable)
Voltage Rating (at sea level): 335 Vrms Min.
Contact Resistance: Center Contact: 5 mΩ Max.
Outer Contact: 2.5 mΩ Max.
Insulation Resistance: 10,000 MΩ Min.
Insertion Loss Max.: 0.10 dB @ 1 GHz
Dielectric Withstanding Voltage: 1,000 Vrms (at sea level)

Mechanical

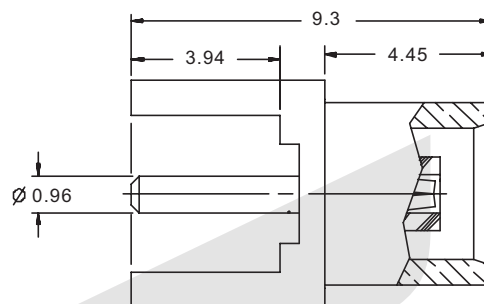
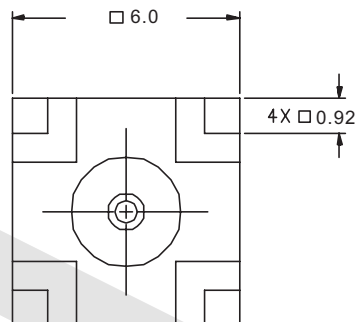
Mating: Snap-on coupling
Braid/Jacket Cable Affixment: Hex crimp
Center Conductor Cable Affixment: Solder
Contact Captivation: 2.3 lbs (10N) Min.
Engagement Force: 5.6 lbs (25N) Max.
Disengagement Force: 2.3 lbs (10N) Min.
Durability (matings) 500 cycles Min.
Temperature Range -55°C to +155°C

Material

Male Contact: Brass, 30μ gold plated
Female Contact: Beryllium copper, 30μ gold plated
Crimp Ferrule: Copper or brass, nickel plated
Other Metal Parts: Brass, nickel or gold plated
Insulator: PTFE
Gasket: Silicone rubber



MOUNTING HOLE LAYOUT



ORDER INFORMATION

Product NO.: KLS1-MCX003

Pos. NO. _____

MCX Connector Type _____

MCX Connector Series

KLS1-MCX004 MCX Connector Series

Cable Group : SFF-50-1.5-1,RG-174/U

Electrical Specification

Impedance:	50 Ω
Frequency Range:	DC - 6 GHz
VSWR:	1.06 max. @ DC - 2.5 GHz (straight) 1.1 max. @ DC - 2.5 GHz (right angle)
RF-Leakage :	60 dB Min. @ 1 GHz (flexible cable) 70 dB Min. @ 1 GHz (semi-rigid cable)

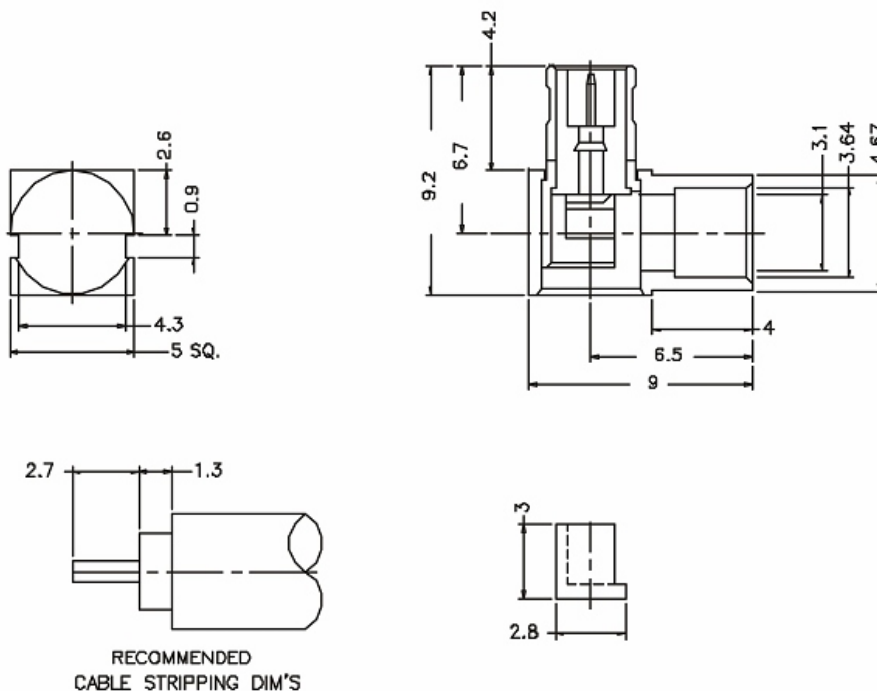
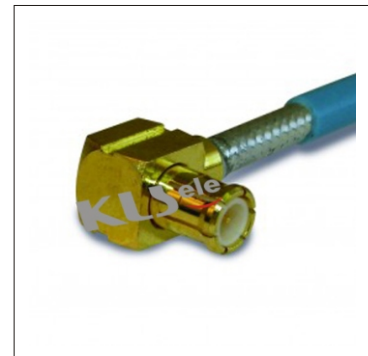
Voltage Rating (at sea level): ≥ 335 Vrms
 Contact Resistance: Center Contact: ≤ 5 m Ω
 Outer Contact: ≤ 2.5 m Ω
 Insulation Resistance: 10,000 M Ω Min.
 Insertion Loss Max.: 0.10 dB @ 1 GHz
 Dielectric Withstanding Voltage: 1,000 Vrms (at sea level)

Mechanical

Mating: Snap-on coupling
 Braid/Jacket Cable Affixment: Hex crimp
 Center Conductor Cable Affixment: Solder
 Contact Captivation: ≥ 2.3 lbs (10N)
 Engagement Force: ≤ 5.6 lbs (25N)
 Disengagement Force: ≥ 2.3 lbs (10N)
 Durability (matings) 500 cycles Min.
 Temperature Range -55°C to +155°C

Material

Male Contact: Brass, 30 μ gold plated
 Female Contact: Beryllium copper, 30 μ gold plated
 Crimp Ferrule: Copper or brass, nickel plated
 Other Metal Parts: Brass, nickel or gold plated
 Insulator: PTFE
 Gasket: Silicone rubber



MCX Connector Series

KLS1-MCX005 MCX Connector Series

Cable Group : RG-316 Double Braid

Electrical Specification

Impedance:	50 Ω
Frequency Range:	DC - 6 GHz
VSWR:	1.06 max. @ DC - 2.5 GHz (straight) 1.1 max. @ DC - 2.5 GHz (right angle)
RF-Leakage :	60 dB Min. @ 1 GHz (flexible cable) 70 dB Min. @ 1 GHz (semi-rigid cable)
Voltage Rating (at sea level):	≥ 335 Vrms
Contact Resistance:	Center Contact: ≤ 5 m Ω Outer Contact: ≤ 2.5 m Ω
Insulation Resistance:	10,000 M Ω Min.
Insertion Loss Max.:	0.10 dB @ 1 GHz
Dielectric Withstanding Voltage:	1,000 Vrms (at sea level)

Mechanical

Mating: Snap-on coupling
 Braid/Jacket Cable Affixment: Hex crimp
 Center Conductor Cable Affixment: Solder
 Contact Captivation: ≥ 2.3 lbs (10N)
 Engagement Force: ≤ 5.6 lbs (25N)
 Disengagement Force: ≥ 2.3 lbs (10N)
 Durability (matings) 500 cycles Min.
 Temperature Range -55°C to +155°C

Material

Male Contact: Brass, 30 μ gold plated
 Female Contact: Beryllium copper, 30 μ gold plated
 Crimp Ferrule: Copper or brass, nickel plated
 Other Metal Parts: Brass, nickel or gold plated
 Insulator: PTFE
 Gasket :Silicone rubber

