

22 MCX - Specifications

MCX Plug



MCX Jack



ELECTRICAL

	50 ohms	75 ohms
Impedance	DC to 6GHz	DC to 6GHz
Frequency	1.35:1 Maximum (Straight)	1.35:1 Maximum (Straight)
VSWR	1.63:1 Maximum (Right Angle)	1.63:1 Maximum (Right Angle)
Insertion Loss	0.4dB Maximum (Straight)	0.4dB Maximum (Straight)
	0.6dB Maximum (Right Angle)	0.6dB Maximum (Right Angle)
RF Leakage	-60dB Minimum	-60dB Minimum
Insulation Resistance	1Gohms Minimum	1Gohms Minimum
Inner Contact Resistance	5mohms Maximum	5mohms Maximum
Outer Contact Resistance	1mohms Maximum	1mohms Maximum
Working Voltage	250V RMS	250V RMS
Dielectric Withstanding Voltage	500V RMS	500V RMS

MECHANICAL

Durability	500 mating cycles	500 mating cycles
Cable Retention	equal to cable breaking strain	equal to cable breaking strain

ENVIRONMENTAL

Temperature Range	-65 to +165 degrees centigrade	-65 to +165 degrees centigrade
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MATERIALS

Bodies	Brass, Gold or Nickel Plated	Brass, Gold Plated
Pins	Brass, Gold Plated	Brass, Gold Plated
Contacts	Beryllium Copper, Gold Plated	Beryllium Copper, Gold Plated
Ferrules	Brass, Gold or Nickel Plated	Brass, Gold or Nickel Plated
Insulators	PTFE	PTFE
End Caps	Brass, Gold or Nickel Plated	Brass, Gold Plated
Gaskets	Silicon Rubber	Silicon Rubber
Panel Nuts	Brass, Gold or Nickel Plated	Brass, Gold Plated
Panel Washers	Brass, Gold or Nickel Plated	Brass, Gold Plated

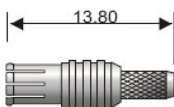
The above specifications are typical although some variations may occur.

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MCX Cable Fixing 23

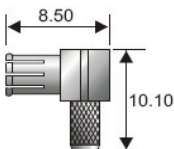
Crimp Plug



PART NUMBER	CABLE TYPE(S)	PLATING	IMPEDANCE	STRIP DIMS	HEX SIZES
MX15-D179-C01-Z	RD179	Gold	75	M11	H8
MX15-D179-C06-Z	RD179	Nickel	75	M11	H8
MX15-D316-C01	RD316	Gold	50	M11	H8
MX15-D316-C06	RD316	Nickel	50	M11	H8
MX15-0174-C01	RG174, 188, 316	Gold	50	M11	H1
MX15-0174-C06	RG174, 188, 316	Nickel	50	M11	H1
MX15-0178-C01	RG178, 196	Gold	50	M11	H1
MX15-0178-C06	RG178, 196	Nickel	50	M11	H1
MX15-0179-C01	RG179, 187	Gold	50	M11	H1
MX15-0179-C01-Z	RG179, 187	Gold	75	M11	H1
MX15-0179-C06-Z	RG179, 187	Nickel	75	M11	H1

Strip Dimensions - see Illustration S.1
M11: A = 5.0mm B = 3.0mm C = 2.5mm

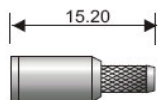
Crimp Right Angle Plug



PART NUMBER	CABLE TYPE(S)	PLATING	IMPEDANCE	STRIP DIMS	HEX SIZES
MX17-D179-C01-Z	RD179	Gold	75	M12	H8
MX17-D179-C06-Z	RD179	Nickel	75	M12	H8
MX17-D316-C01	RD316	Gold	50	M12	H8
MX17-D316-C06	RD316	Nickel	50	M12	H8
MX17-0174-C01	RG174, 188, 316	Gold	50	M12	H1
MX17-0174-C06	RG174, 188, 316	Nickel	50	M12	H1
MX17-0178-C01	RG178, 196	Gold	50	M12	H1
MX17-0178-C06	RG178, 196	Nickel	50	M12	H1
MX17-0179-C01	RG179, 187	Gold	50	M12	H1
MX17-0179-C01-Z	RG179, 187	Gold	75	M12	H1
MX17-0179-C06-Z	RG179, 187	Nickel	75	M12	H1
MX17-0058-C01	RG58, URM43	Gold	50	M09	H3

Strip Dimensions - see Illustration S.1
M12: A = 5.0mm B = 2.0mm C = 2.0mm
M09: A = 8.0mm B = 2.0mm C = 2.0mm

Crimp Jack

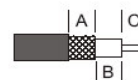


PART NUMBER	CABLE TYPE(S)	PLATING	IMPEDANCE	STRIP DIMS	HEX SIZES
MX10-D179-C01	RD179	Gold	50	M13	H8
MX10-D316-C01	RD316	Gold	50	M13	H8
MX10-D316-C06	RD316	Nickel	50	M13	H8
MX10-0174-C01	RG174, 188, 316	Gold	50	M13	H1
MX10-0174-C06	RG174, 188, 316	Nickel	50	M13	H1
MX10-0178-C01	RG178, 196	Gold	50	M13	H1
MX10-0178-C06	RG178, 196	Nickel	50	M13	H1
MX10-0179-C01	RG179, 187	Gold	50	M13	H1
MX10-0179-C01-Z	RG179, 187	Gold	75	M13	H1
MX10-0179-C06-Z	RG179, 187	Nickel	75	M13	H1

Crimp Hex Sizes:
 See Page 85 for
 crimp hex sizes.

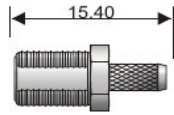
Strip Dimensions - see Illustration S.1
M13: A = 5.0mm B = 3.0mm C = 2.5mm

Illustration S.1



24 MCX Cable Fixing and PCB Mounting

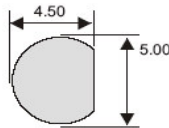
Crimp Bulkhead Jack



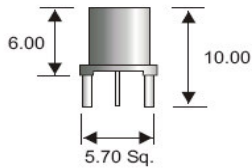
PART NUMBER	CABLE TYPE(S)	PLATING	IMPEDANCE	STRIP DIMS	HEX SIZES
MX02-D179-C01	RD179	Gold	50	M14	H8
MX02-D316-C01	RD316	Gold	50	M14	H8
MX02-D316-C06	RD316	Nickel	50	M14	H8
MX02-0174-C01	RG174, 188, 316	Gold	50	M14	H1
MX02-0174-C06	RG174, 188, 316	Nickel	50	M14	H1
MX02-0178-C01	RG178, 196	Gold	50	M14	H1
MX02-0178-C06	RG178, 196	Nickel	50	M14	H1
MX02-0179-C01	RG179, 187	Gold	50	M14	H1
MX02-0179-C01-Z	RG179, 187	Gold	75	M14	H1
MX02-0179-C06-Z	RG179, 187	Nickel	75	M14	H1

Strip Dimensions - see Illustration S.1

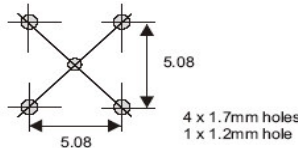
M14: A = 5.0mm B = 5.5mm C = 2.3mm



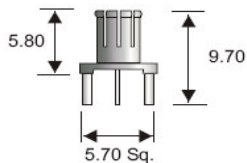
Vertical PCB Jack



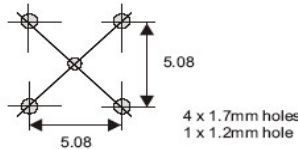
PART NUMBER	PLATING	IMPEDANCE
MX10-X150-N01	Gold	50
MX10-X150-N06	Nickel	50



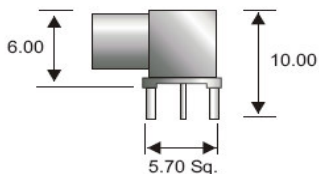
Vertical PCB Plug



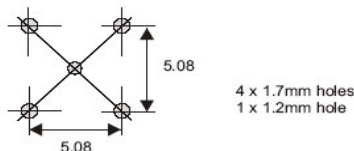
PART NUMBER	PLATING	IMPEDANCE
MX15-X150-N01	Gold	50
MX15-X150-N06	Nickel	50



Right Angle PCB Jack

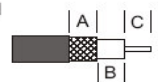


PART NUMBER	PLATING	IMPEDANCE
MX10-X170-N01	Gold	50
MX10-X170-N06	Nickel	50



Crimp Hex Sizes:
See Page 85 for
crimp hex sizes.

Illustration S.1



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