CAMBRIDGE ELECTRONIC INDUSTRIES

6GHz Coaxial Connectors
Changeable Interface Connector System

General Description

The changeable interface connector system is designed for 6GHz high speed, HD video applications, with all common 75Ω coaxial interface styles catered for.

The flexibility of the system means that one standard footprint on the PCB can provide a wide variety of inter-mating connector options making it ideal for use in test and measurement equipment. In addition, critical PCB layouts are independent of connector types or series enabling designers to future proof their board designs.

The changeable interface connector system greatly reduces time and costs when modifications to the front interfaces are necessary to meet different connector styles; Retro–active changes can be realised speedily and simply in situ. Similarly, field repairs can be implemented on site minimising down time. The changeable interface connector system is patented to Cambridge Connectors.

Features

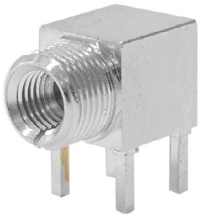
- Precision 6GHz 75Ω BNC Connector
- Ideal for 6G HD-SDI Test and Measurement Applications
- Single body with interchangeable interfaces
- Mix & match BNC, 1.0/2.3, Micro BNC and others.

6G SDI

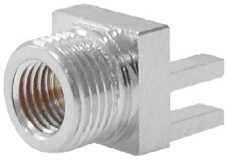
XKT-1067-NGAY
BNC Interface

XKT-D000-GGAY
Micro BNC Interface

XKT-8014-GGAY
1.0/2.3 Interface



XKT-C000-NGAY
Right Angle Connector Body



XKT-C001-NGAY
Edge Mounted Connector Body

XKT-C002-NGAY
Top Entry Connector Body

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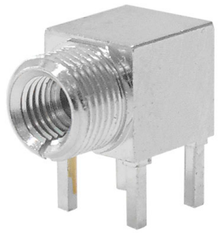
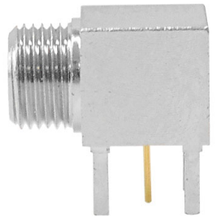
CAMBRIDGE ELECTRONIC INDUSTRIES

6GHz Coaxial Connectors
Changeable Interface Connector System
Part Number: XKT-C000-NGAY

General Description

The XKT-C000-NGAY is a right angle mounted PCB connector body for the changeable interface system and can be used with any of the formats of interface available.





Electrical

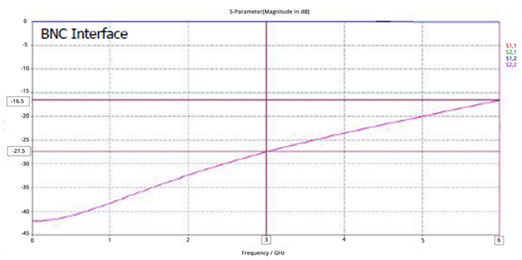
Impedance		75Ω
Frequency Range		0-6GHz
Working Voltage		250Vrms
Reflection Factor (VSWR)		1.10 (max) 0-3GHz 1.35 (max) 3-6GHz
Dielectric Withstanding Voltage		750Vrms
Insulation Resistance		≥1000MΩ
Contact Resistance	Centre Contact	≤ 4.0mΩ
	Outer Contact	≤ 2.5mΩ

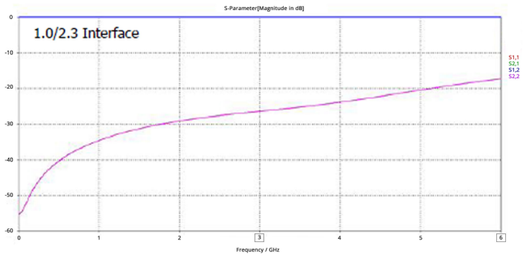
Materials

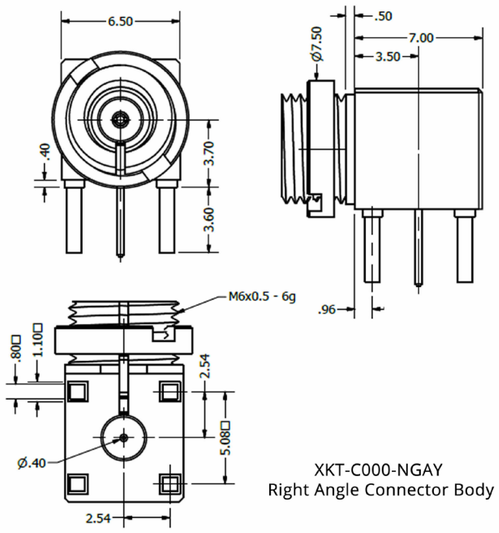
Centre Pin	BeCu/PhosBronze/ 10 µ"Au
Metal Parts	Brass/Ni/Au
Insulators	PTFE

Environmental

Connector Type	BNC Female
Temp Range	-65 to +85ºC
Mating Cycles	250/500







XKT-C000-NGAY
Right Angle Connector Body

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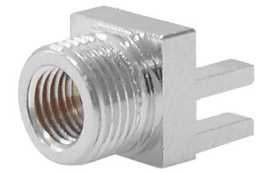
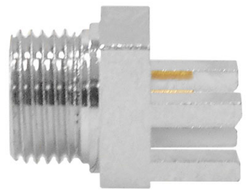
CAMBRIDGE ELECTRONIC INDUSTRIES

6GHz Coaxial Connectors
Changeable Interface Connector System
Part Number: XKT-C001-NGAY

General Description

The XKT-C001-NGAY is an edge mounted PCB connector body for the changeable interface system and can be used with any of the formats of interface available.





Electrical

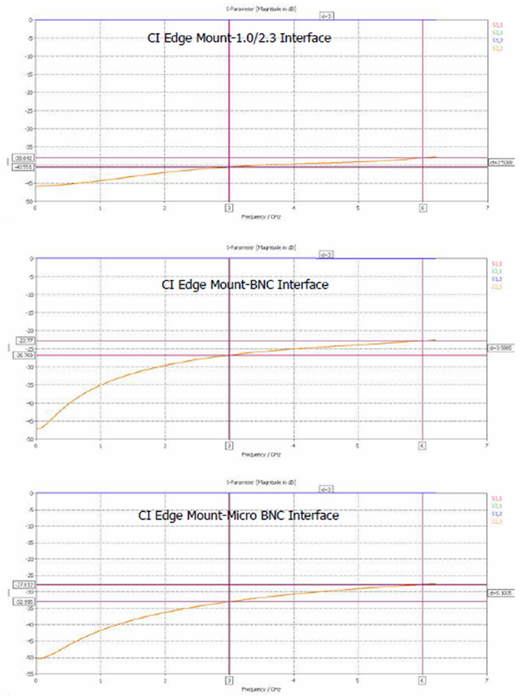
Impedance		75Ω
Frequency Range		0-6GHz
Working Voltage		250Vrms
Reflection Factor (VSWR)		1.10 (max) 0-3GHz 1.35 (max) 3-6GHz
Dielectric Withstanding Voltage		750Vrms
Insulation Resistance		≥1000MΩ
Contact Resistance	Centre Contact	≤ 4.0mΩ
	Outer Contact	≤ 2.5mΩ

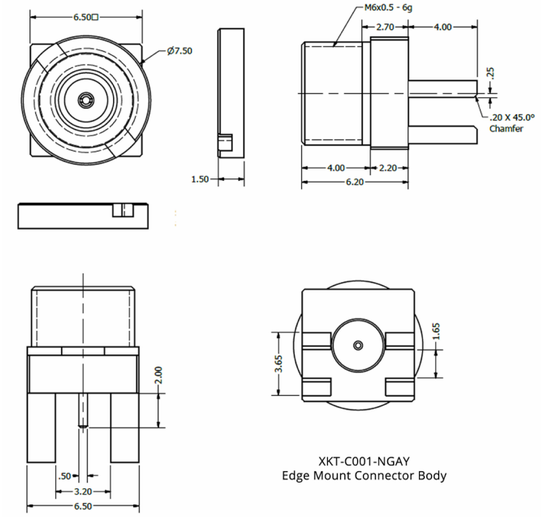
Materials

Centre Pin	BeCu/PhosBronze/ 10 µ"Au
Metal Parts	Brass/Ni/Au
Insulators	PTFE

Environmental

Connector Type	BNC Female
Temp Range	-65 to +85ºC
Mating Cycles	250/500





XKT-C001-NGAY
Edge Mount Connector Body

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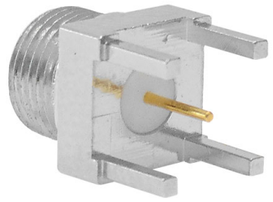
CAMBRIDGE ELECTRONIC INDUSTRIES

6GHz Coaxial Connectors
Changeable Interface Connector System
Part Number: XKT-C002-NGAY

General Description

The XKT-C002-NGAY is a top entry mounted PCB connector body for the changeable interface system and can be used with any of the formats of interface available.



Electrical

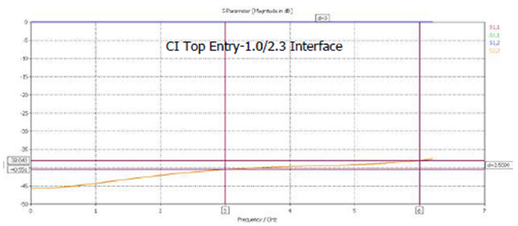
Impedance		75Ω
Frequency Range		0-6GHz
Working Voltage		250Vrms
Reflection Factor (VSWR)		1.10 (max) 0-3GHz 1.16 (max) 3-6GHz
Dielectric Withstanding Voltage		750Vrms
Insulation Resistance		≥1000MΩ
Contact Resistance	Centre Contact	≤ 4.0mΩ
	Outer Contact	≤ 2.5mΩ

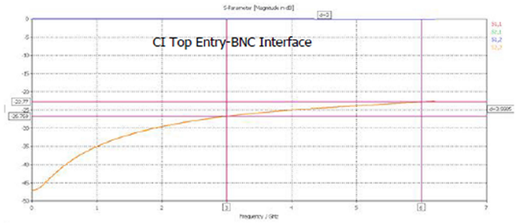
Materials

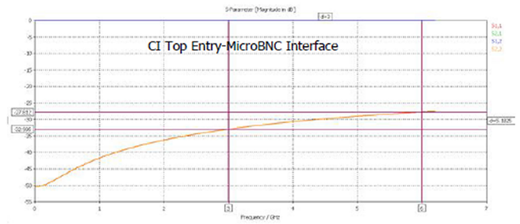
Centre Pin	BeCu/PhosBronze/ 10 µ"Au
Metal Parts	Brass/Ni/Au
Insulators	PTFE

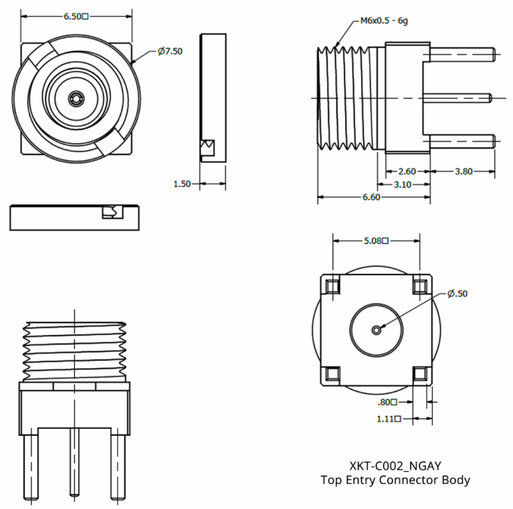
Environmental

Connector Type	BNC Female
Temp Range	-65 to +85°C
Mating Cycles	250/500









XKT-C002_NGAY
Top Entry Connector Body

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CAMBRIDGE ELECTRONIC INDUSTRIES

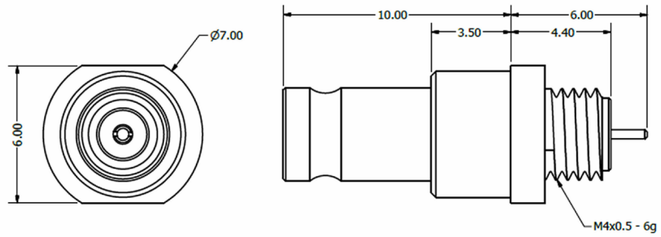
6GHz Coaxial Connectors
Changeable Interface Connector System
Part Number: XKT-8014-GGAY
XKT-D000-GGAY, XKT-1067-NGAY

General Description

Each interface is interchangeable and is ideal for use in test and measurement equipment, where different connections may be required. The flexibility of the system provides interconnection solutions, without the need for adaptors or patch cables and thus reducing potential losses and increasing validity of test results.

Part Description

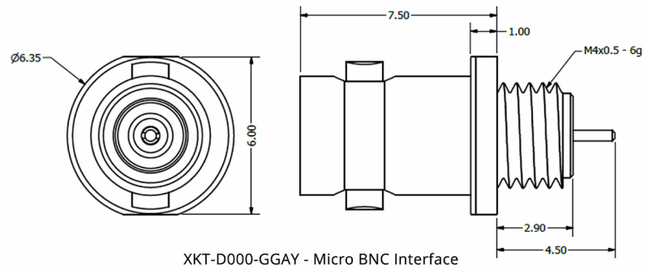
The XKT-8014-GGAY is a 1.0 / 2.3 Interface for use with one of the changeable interface connector bodies.



XKT-8014-GGAY - 1.0/2.3 Interface

Part Description

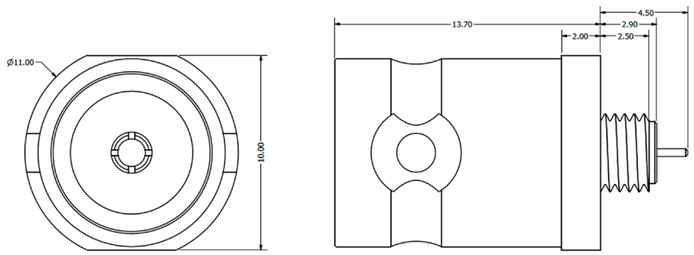
The XKT-D000-GGAY is a Micro BNC Interface for use with one of the changeable interface connector bodies.



XKT-D000-GGAY - Micro BNC Interface

Part Description

The XKT-1067-NGAY is a BNC Interface for use with one of the changeable interface connector bodies.



XKT-1067-NGAY - BC interface

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