

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

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	$\geq 1000\text{M}\Omega$				
Contact Resistance	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Centre Contact</td> <td>$\leq 4.0\text{m}\Omega$</td> </tr> <tr> <td>Outer Contact</td> <td>$\leq 2.5\text{m}\Omega$</td> </tr> </table>	Centre Contact	$\leq 4.0\text{m}\Omega$	Outer Contact	$\leq 2.5\text{m}\Omega$
Centre Contact	$\leq 4.0\text{m}\Omega$				
Outer Contact	$\leq 2.5\text{m}\Omega$				

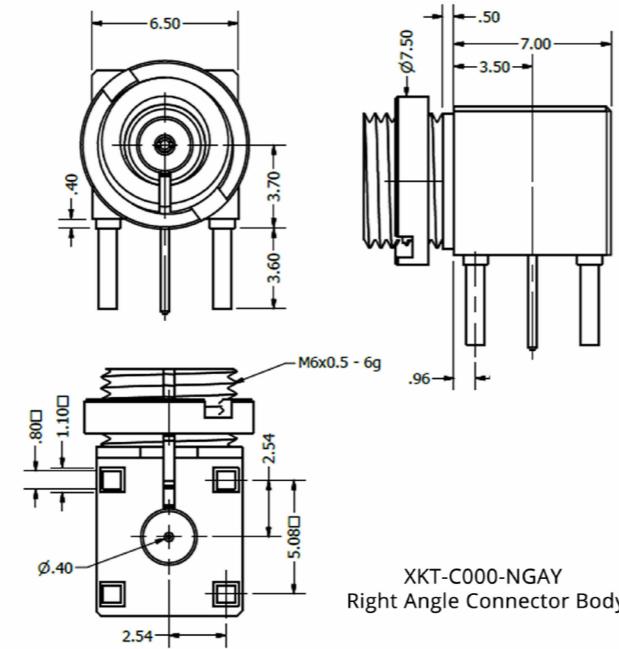
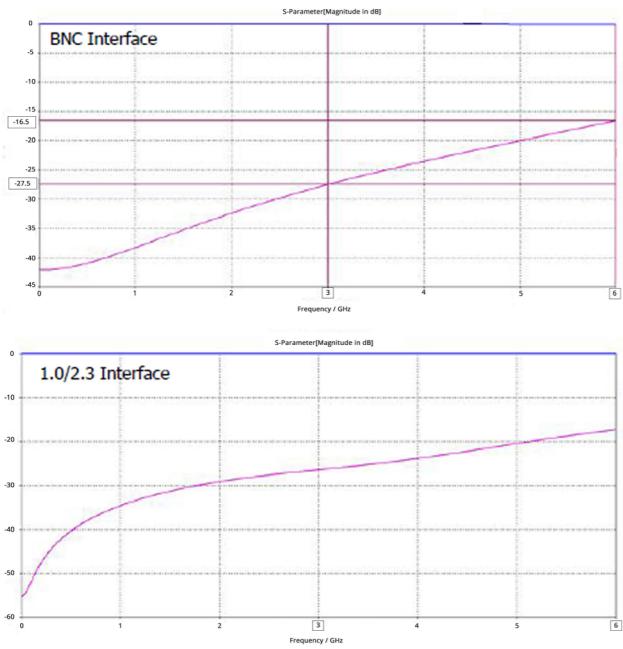


Materials

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

Environmental

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



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	$\geq 1000\text{M}\Omega$				
Contact Resistance	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Centre Contact</td> <td>$\leq 4.0\text{m}\Omega$</td> </tr> <tr> <td>Outer Contact</td> <td>$\leq 2.5\text{m}\Omega$</td> </tr> </table>	Centre Contact	$\leq 4.0\text{m}\Omega$	Outer Contact	$\leq 2.5\text{m}\Omega$
Centre Contact	$\leq 4.0\text{m}\Omega$				
Outer Contact	$\leq 2.5\text{m}\Omega$				

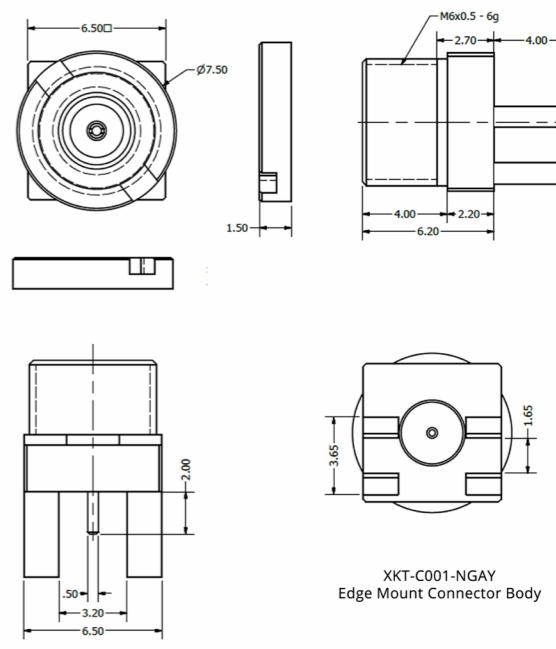
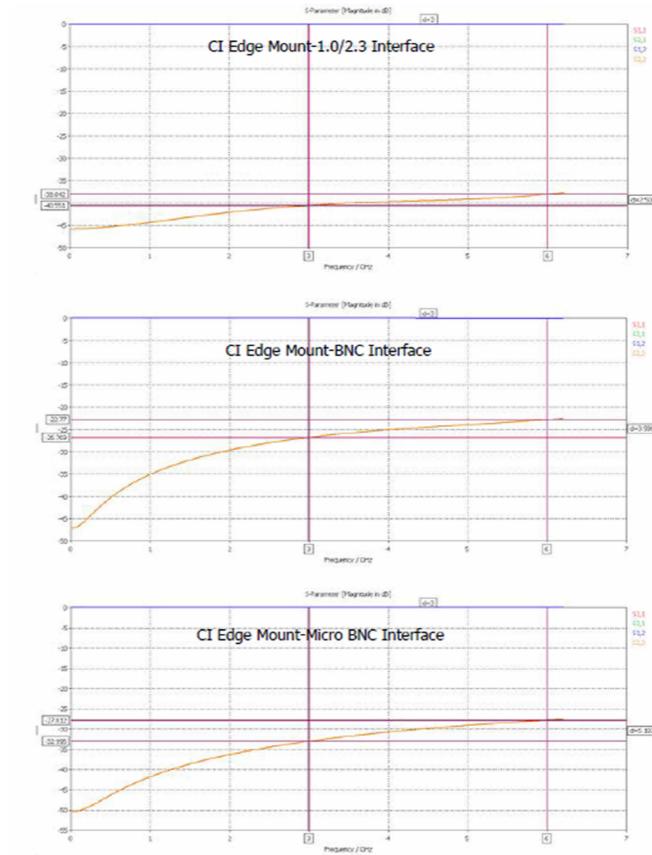


Materials

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

Environmental

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



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

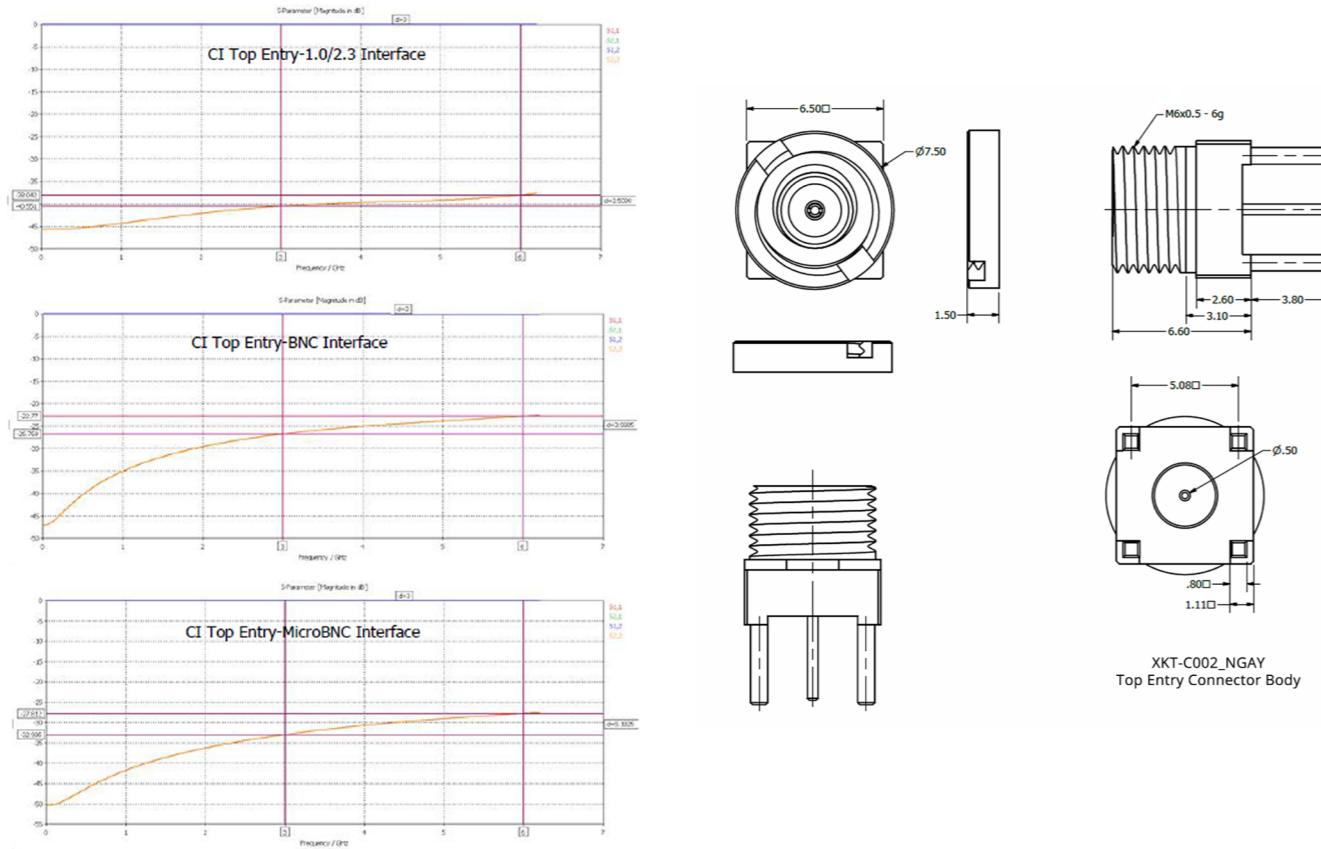
Impedance	75Ω				
Frequency Range	0-6GHz				
Working Voltage	250Vrms				
Reflection Factor (VSWR)	1.10 (max) 0-3GHz 1.16 (max) 3-6GHz				
Dielectric Withstanding Voltage	750Vrms				
Insulation Resistance	$\geq 1000\text{M}\Omega$				
Contact Resistance	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>Centre Contact</td> <td>$\leq 4.0\text{m}\Omega$</td> </tr> <tr> <td>Outer Contact</td> <td>$\leq 2.5\text{m}\Omega$</td> </tr> </table>	Centre Contact	$\leq 4.0\text{m}\Omega$	Outer Contact	$\leq 2.5\text{m}\Omega$
Centre Contact	$\leq 4.0\text{m}\Omega$				
Outer Contact	$\leq 2.5\text{m}\Omega$				



Materials

Centre Pin	BeCu/PhosBronze/ 10 μm Au	Connector Type	BNC Female
Metal Parts	Brass/Ni/Au	Temp Range	-65 to +85°C
Insulators	PTFE	Mating Cycles	250/500

Environmental

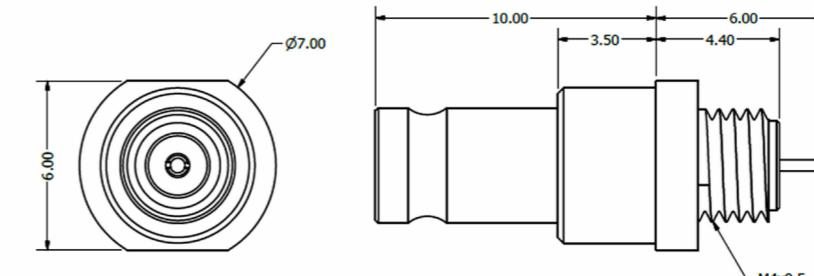


General Description

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.

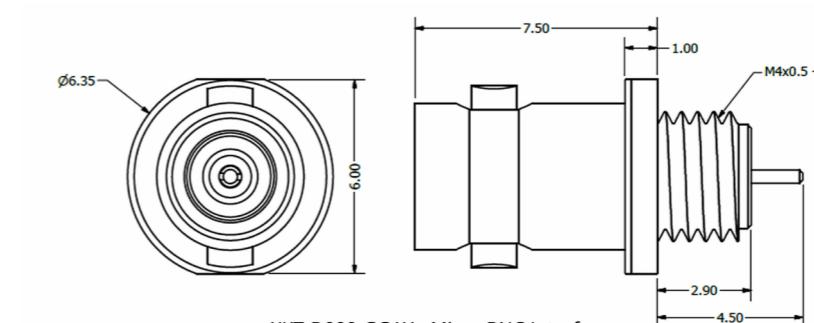


XKT-8014-GGAY - 1.0/2.3 Interface



Part Description

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

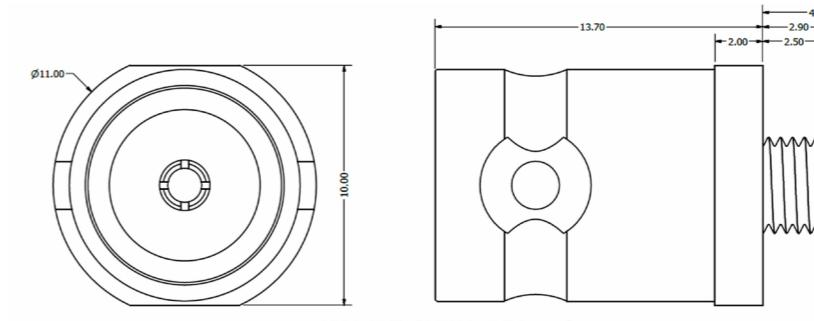


XKT-D000-GGAY - Micro BNC Interface



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

