# 3GHz BNC Coaxial Connectors
# 2 Part Connector System

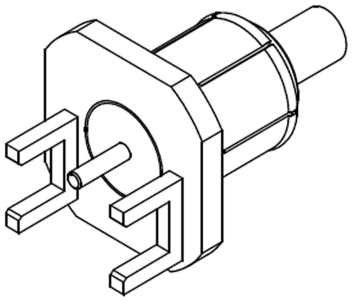
## General Description

The two part BNC connector system is designed for 3GHz HD-SDI applications, with six front interface styles of 75Ω coaxial catered for. The main inner body is board mounted in either a square based top entry system or a PCB edge mounted system which is available for a number of board thicknesses. The front interface of the system has five different bulkhead mounting styles and an additional PCB mount style available.

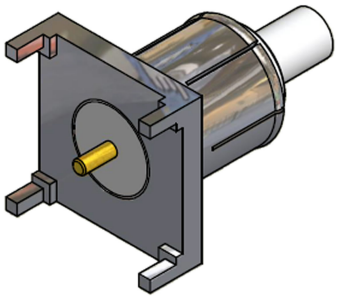
## Features

- Precision 3GHz 75Ω BNC Connector
- Ideal for 3G HD-SDI Test and Measurement Applications
- Two mounting styles with six front Interface styles
- Single board design can be used in multiple applications
- Easy board replacement without having to disrupt existing mated cabling
- Plug and play board replacement

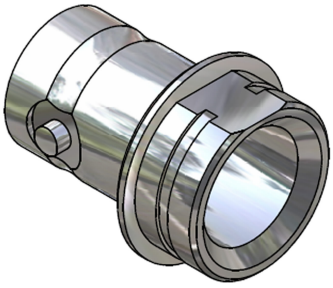
3G SDI CoaxVision™



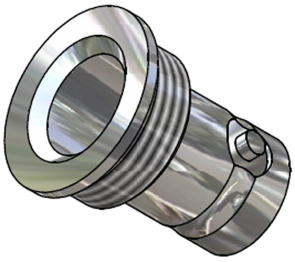
XBT-1060-NGAY
Edge Mount 2 Part Inner



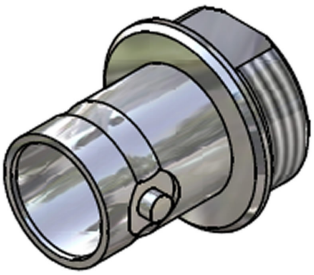
XBT-1065-NGAY
Top Entry 2 Part Inner



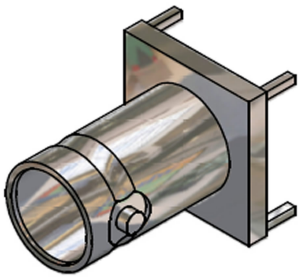
71X-0037-33
Circlip Bulkhead Mount Connector Body



71X-0038-33
Rear Mount Connector Body

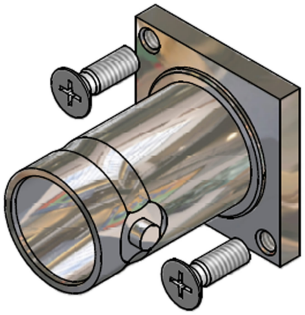


71X-0039-33
Front Mount Connector Body



71X-0040-33
PCB mounted Connector Body

71X-0042-33
Rear Mount Connector Body with flats



71X-0044-33
Rear Mount Connector Body with screws

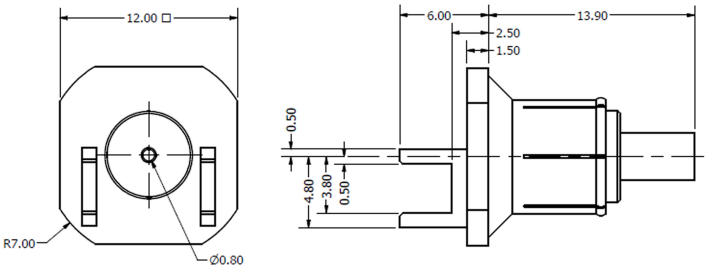
CAMBRIDGE ELECTRONIC INDUSTRIES

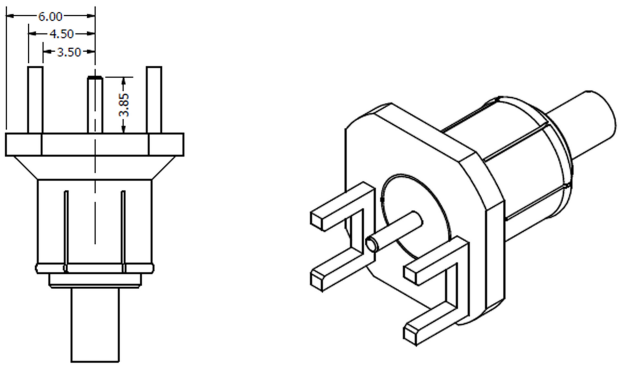
Tel: +44 (0)1223 860041
Tel: +44 (0)1223 863377
Email: sales@cambridgeelectronics.com

# 3GHz BNC Coaxial Connectors
# 2 Part Connector System
# Part Number XBT-1060-NGAY and XBT-1065-NGAY

## Part Description

The XBT-1060-NGAY is a PCB edge mounting connector inner for the 2 part BNC 3GHz connector system, which is available for use in a number of board thicknesses.




### Electrical Specification

| | |
|---|---|
| Impedance: | 75Ω |
| Frequency Range: | 0-3.2GHz |
| Working Voltage: | 500Vrms |
| Dielectric Withstanding Voltage: | 1500Vrms |
| Contact Resistance: | Centre contact 1.5mΩ<br>Outer contact 1.0mΩ |
| Insulation Resistance: | >5000M Ω |

### Materials

| | |
|---|---|
| Centre Pin: | Phosphor Bronze / 10µ"Au |
| Metal Parts: | Brass / Ni |
| Insulators: | PTFE |

### Environmental

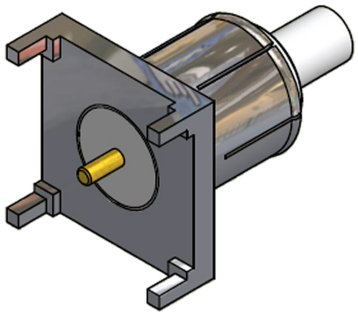
| | |
|---|---|
| Temp Range: | -65 to +85°C |
| Mating Cycles: | 250 |

### Processing

Maximum hand soldering temperature 265°C

## Part Description

The XBT-1065-NGAY is a square based PCB top entry mounting connector inner for the 2 part BNC 3GHz connector system.



### Electrical Specification

| | |
|---|---|
| Impedance: | 75Ω |
| Frequency Range: | 0-3.2GHz |
| Working Voltage: | 500Vrms |
| Dielectric Withstanding Voltage: | 1500Vrms |
| Contact Resistance: | Centre contact 1.5mΩ<br>Outer contact 1.0mΩ |
| Insulation Resistance: | >5000M Ω |

### Materials

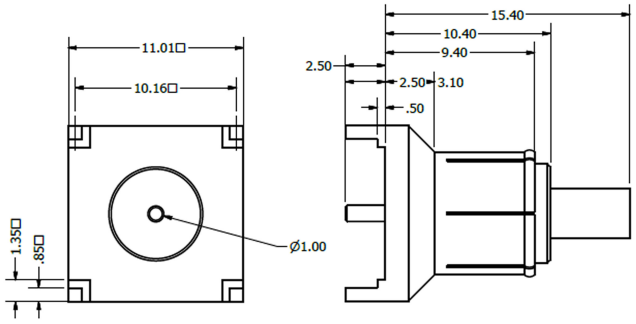
| | |
|---|---|
| Centre Pin: | Phosphor Bronze / 10µ"Au |
| Metal Parts: | Brass / Ni |
| Insulators: | PTFE |

### Environmental

| | |
|---|---|
| Temp Range: | -65 to +85°C |
| Mating Cycles: | 250 |

### Processing

Maximum wave and hand soldering temperature 265°C

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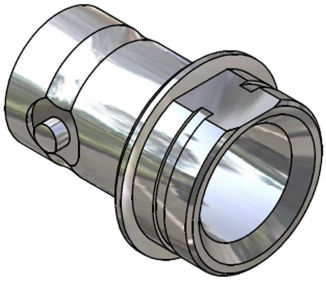
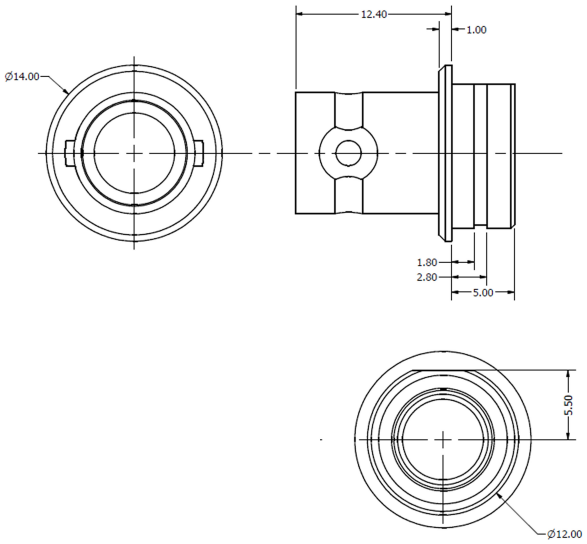
Tel: +44 (0)1223 860041
Tel: +44 (0)1223 863377
Email: sales@cambridgeelectronics.com

# 3GHz BNC Coaxial Connectors
# 2 Part Connector System
# Part Number 71X-0037-33, 71X-00038-33, 71X-0039-33

## Part Description

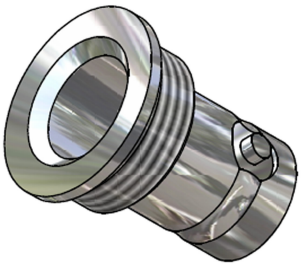
The 71X-0037-33 is a BNC outer circlip bulkhead mount connector body for use with one of the inners of the 2 part system. It is made from brass with a nickel plating. It is supplied without circlip, which can be ordered as a separate item (part number 71X-0036-33).

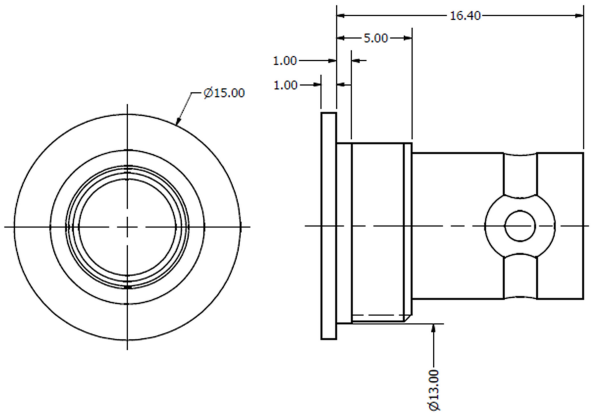





## Part Description

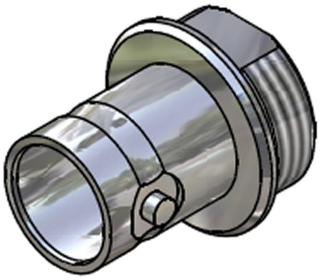
The 71X-0038-33 is a BNC outer rear mounted bulkhead connector body for use with one of the inners of the 2 part system. It is made from brass with a nickel plating. It is supplied with nut and crinkle washer.

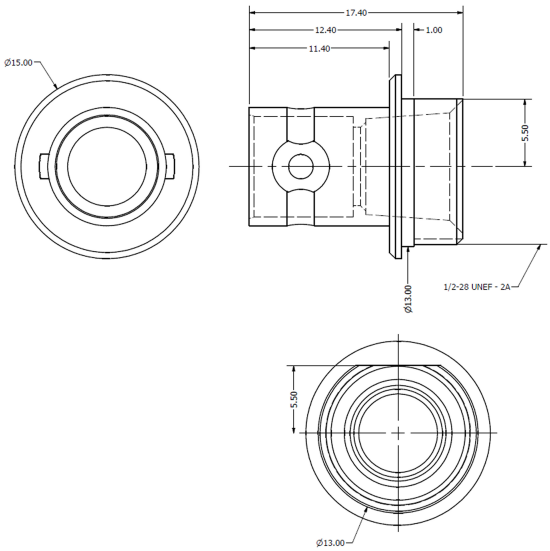





## Part Description

The 71X-0039-33 is a BNC outer front mounted bulkhead connector body for use with one of the inners of the 2 part system. It is made from brass with a nickel plating. It is supplied with nut and crinkle washer.



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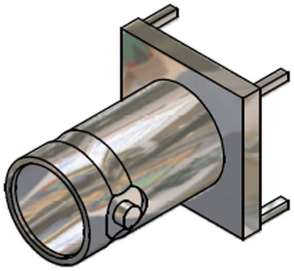
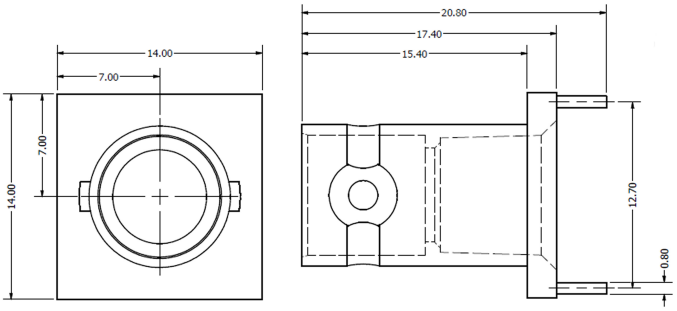
Email: sales@cambridgeelectronics.com

# 3GHz BNC Coaxial Connectors
# 2 Part Connector System
# Part Number 71X-0040-33, 71X-0042-33, 71X-0044-33

## Part Description

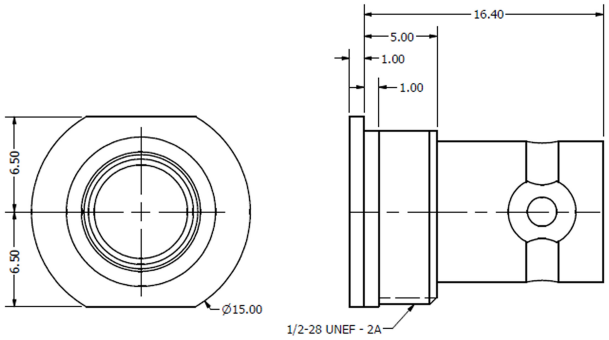
The 71X-0040-33 is a BNC outer connector body for PCB mounting and use with one of the inners of the 2 part system. It is made from brass with a nickel plating.





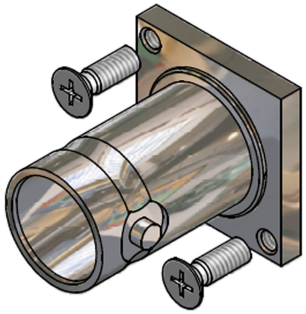

## Part Description

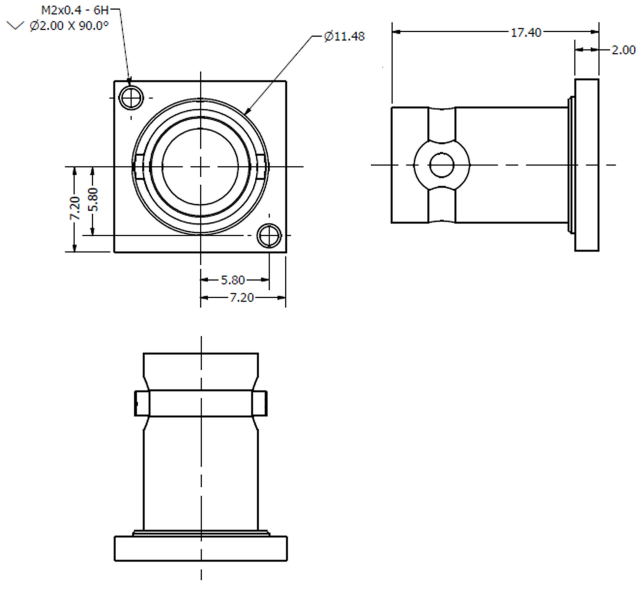
The 71X-0042-33 is a BNC outer rear mounted bulkhead connector body with flats for use with one of the inners of the 2 part system. It is made from brass with a nickel plating. It is supplied with nut and crinkle washer.




## Part Description

The 71X-0044-33 is a BNC outer rear mounted bulkhead connector body with screws for use with one of the inners of the 2 part system. It is made from brass with a nickel plating.



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