

General Description

Our 12 GHz Precision BNC coaxial connectors are engineered for 4K/Quad HD and Ultra HD broadcast applications, while fully complying with the JIJA CoaXPress specification. These high-performance connectors enable a full 12 GHz channel through a single connection, ensuring superior signal integrity and reliability.

For maximum space efficiency, our BNC stacking connectors are designed to deliver the highest packing density in a diagonal array configuration. They can be manufactured in tall-and-short or short-and-tall combinations, with any number of interfaces integrated into a single connector array, offering unmatched flexibility in system design.

These BNC connectors feature a surface-mounted pin and are carefully tuned to minimize crosstalk at higher frequencies. Designed for efficient production, they can be reflow soldered directly onto the PCB, simplifying assembly and ensuring reliable performance.

XBS-12-RB21-NNJRX (Tall Connector)



XBS-12-RB21-NNRX (Short Connector)



Electrical

	XBS-12-RB21-NNJRX (Tall Connector)	XBS-12-RB21-NNRX (Short Connector)
Impedance	75Ω	
Frequency Range	0-12GHz	
Working Voltage	500Vrms	
Reflection Factor (VSWR)	1.05 (max) 0-6GHz 1.64 (max) 6-12GHz	1.23 (max) 0-6GHz 1.44 (max) 6-12GHz
Dielectric Withstanding Voltage	1500Vrms	
Insulation Resistance	≥5000MΩ	
Contact Resistance	centre 1.5mΩ outer 1.0mΩ	

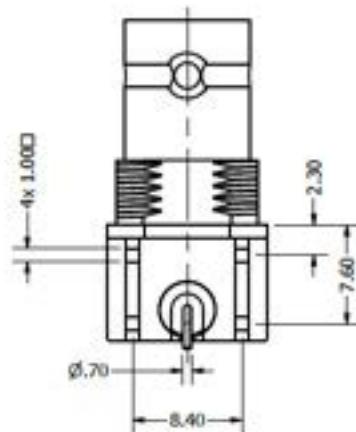
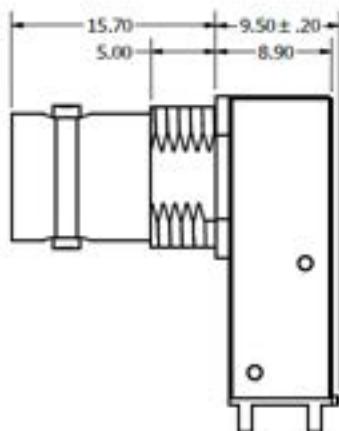
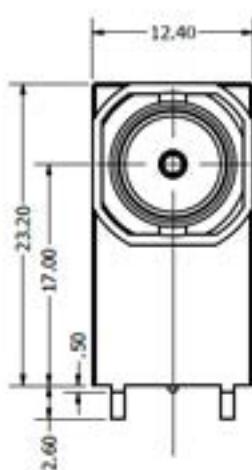
Materials

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

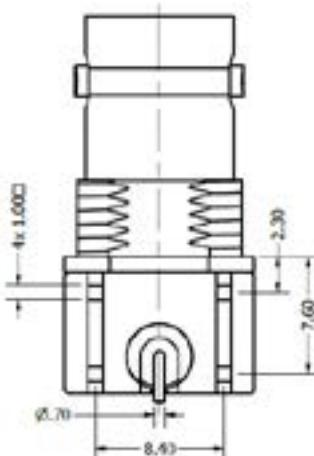
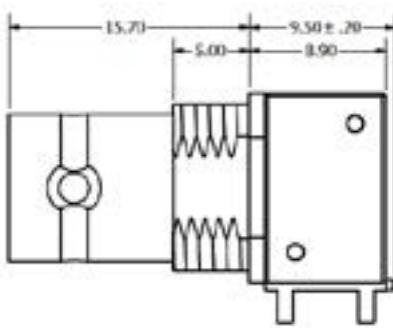
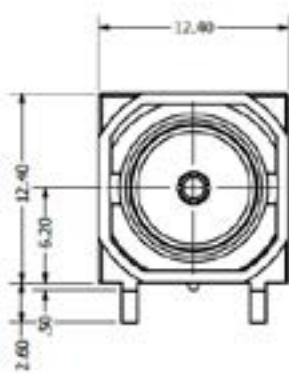
Environmental

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

XBS-12-RB21-NNJRX (Tall Connector)

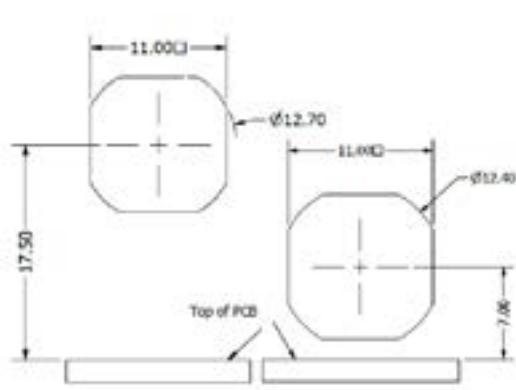
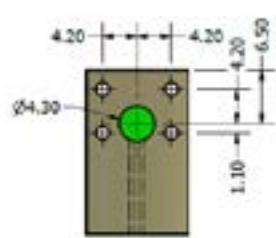
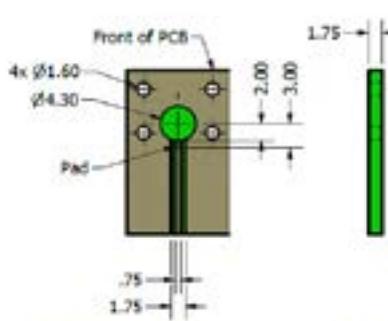


XBS-12-RB21-NNRX (Short Connector)



Return Loss Information - Please See Full Drawings

PCB Layout and Panel Cutout



Suggested PCB layout intended as a starting point for design iteration