

General Description

Our 12 GHz Precision BNC coaxial connectors are engineered for 4K/Quad HD and Ultra HD broadcast applications, fully compliant with the JIIA CoaXPress specification. Supporting a full 12 GHz channel over a single connection, they ensure superior signal integrity and reliability.

For space-critical designs, our Micro BNC stacking connectors provide the highest packing density in a diagonal array configuration, while maintaining the PCIe height standard. They can be manufactured in tall-and-short or short-and-tall combinations, with any number of interfaces integrated into a single connector array, delivering unmatched flexibility in system design. CEI offers custom array drawings with dedicated part numbers, simplifying seamless integration into your design.

Each connector incorporates a through-hole pin and is precisely tuned to minimize crosstalk at higher frequencies, ensuring stable performance in demanding broadcast environments.



XPS-12-RB18-NNIJX (Tall Connector)

XPS-12-RB18-NNIX (Short Connector)



Electrical

	XPS-12-RB18-NNIJX (Tall Connector)	XPS-12-RB18-NNIX (Short Connector)
Impedance	75Ω	
Frequency Range	0-12GHz	
Working Voltage	170Vrms	
Reflection Factor (VSWR)	1.10 (max) 0-6GHz 1.10 (max) 6-12GHz	1.11 (max) 0-6GHz 1.11 (max) 6-12GHz
Dielectric Withstanding Voltage	>500Vrms	
Insulation Resistance	≥1000MΩ	
Contact Resistance	centre 5.0mΩ outer 2.5mΩ	

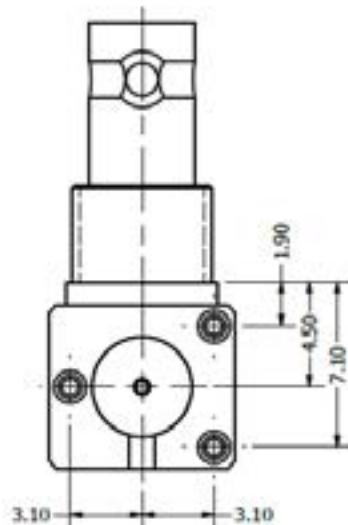
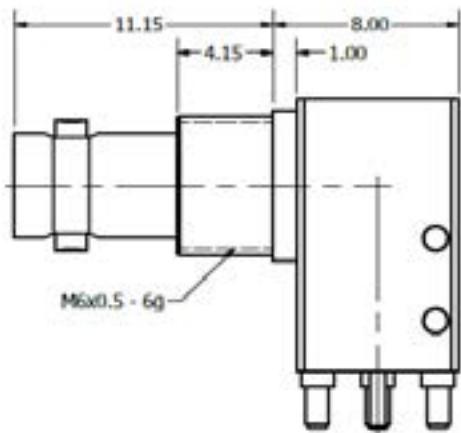
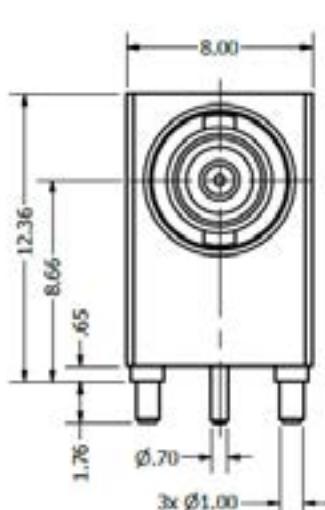
Materials

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

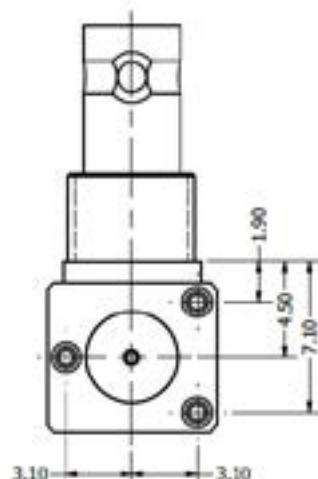
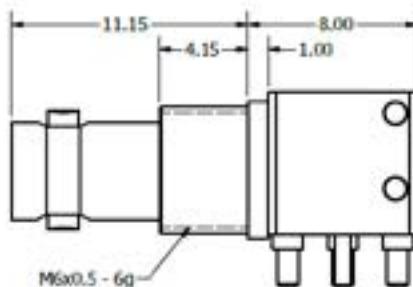
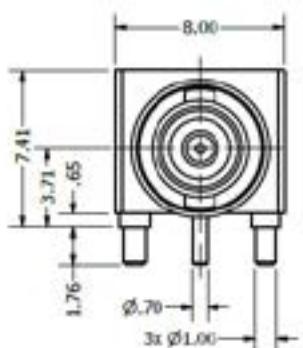
Environmental

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

XPS-12-RB18-NNIJX (Tall Connector)



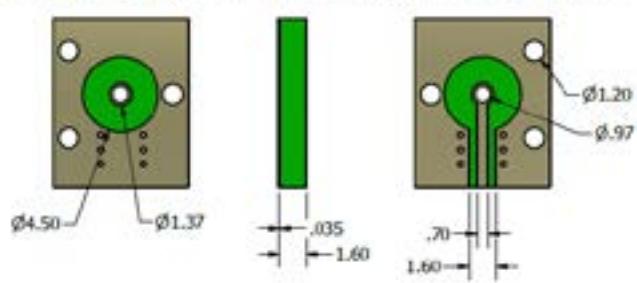
XPS-12-RB-NNIX (Short Connector)



Return Loss Information - Please See Full Drawings

PCB Layout and Panel Cutout

Suggested PCB layout intended as starting point for design iteration



Recommended Panel Cut Out

