

General Description

Our 6 GHz Precision DIN 1.0/2.3 coaxial connectors comply with SMPTE ST2081.1 and CXP-6 standards, supporting data rates up to 5.94 Gbit/s per channel with superior signal integrity and reliability.

For maximum space efficiency, the DIN 1.0/2.3 stacking connectors are engineered for high-density diagonal array configurations within the PCIe standard form factor. 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 design flexibility. CEI provides custom array drawings with dedicated part numbers, simplifying system integration.



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

XGS-06-RB18-NGIJX (Tall Connector)

XGS-06-RB18-NGIX (Short Connector)



Electrical

	XGS-06-RB18-NGIJX (Tall Connector)	XGS-06-RB18-NGIX (Short Connector)
Impedance	75Ω	
Frequency Range	0-6GHz	
Working Voltage	250Vrms	
Reflection Factor (VSWR)	1.04 (max) 0-3GHz 1.13 (max) 3-6GHz	1.04 (max) 0-3GHz 1.12 (max) 3-6GHz
Dielectric Withstanding Voltage	>750Vrms	
Insulation Resistance	≥1000MΩ	
Contact Resistance	centre 4.0mΩ outer 2.5mΩ	

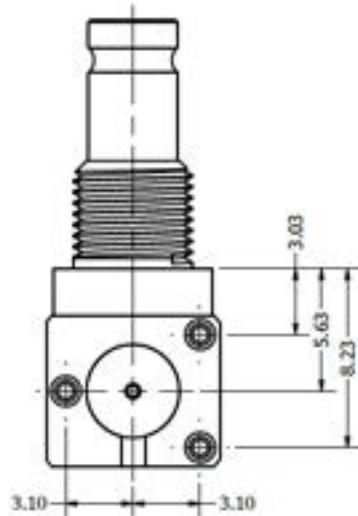
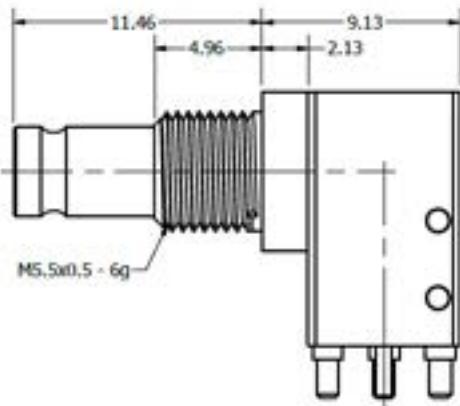
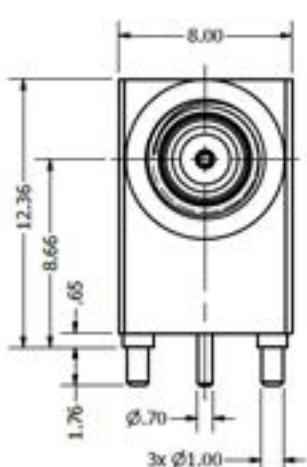
Materials

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

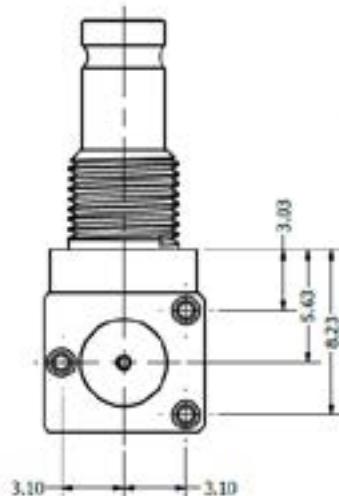
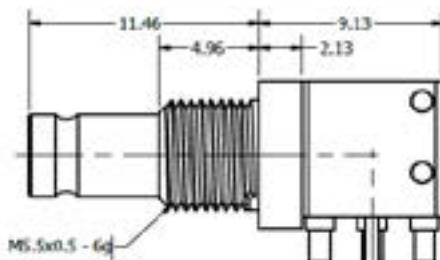
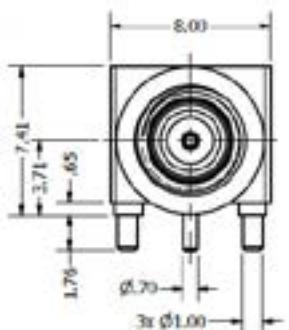
Environmental

Connector Type	DIN 1.0/2.3 Female
Temp Range	-65 to +85°C
Mating Cycles	500

XGS-06-RB18-NGIJX (Tall Connector)



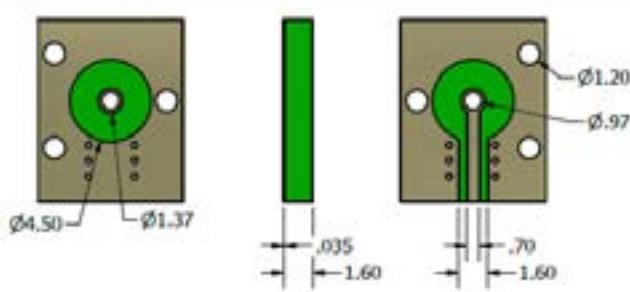
XGS-06-RB-NGIX (Short Connector)



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

