CAMBRIDGE ELECTRONIC INDUSTRIES

50Ω BNC Socket 12GHz Edge Mount
Bulkhead for 1.6mm PCB with Short Pin
Part Number ZBS-12-EB16-NNS
Issue 1.0

General Description

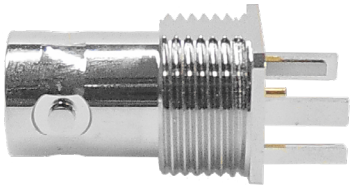
The ZBS-12-EB16-NNS connector is a PCB edge mounting BNC socket for PCB thickness's of 1.6mm. This BNC connector offers a high frequency of up to 12GHz matched to the 50 ohm impedance connection offering a higher powered signal compared to the standard 75 ohm used for Broadcast.

Designed to complement our 75 ohm connector, this connector shares the same body design, ensuring a perfectly consistent appearance when both options are used within the same equipment.



Electrical

Impedance		50Ω
Frequency Range		0-12GHz
Working Voltage		500Vrms
Reflection Factor (VSWR)		1.13 (max) 0-6GHz 1.23 (max) 6-12GHz
Dielectric Withstanding Voltage		1500Vrms
Insulation Resistance		≥5000MΩ
Contact Resistance	Centre Contact	≤ 1.5mΩ
	Outer Contact	≤ 1.0mΩ

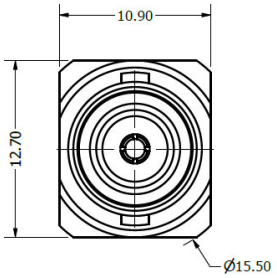


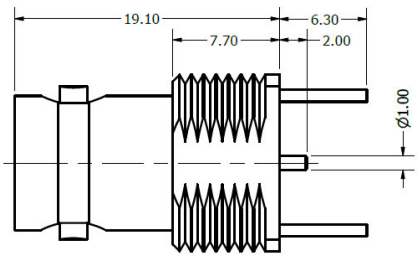
Materials

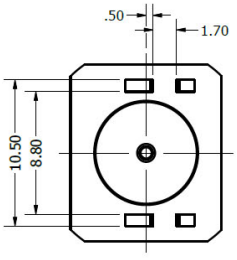
Centre Pin	PhosBronze / Au
Metal Parts	Brass/Ni
Insulators	PTFE

Environmental

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



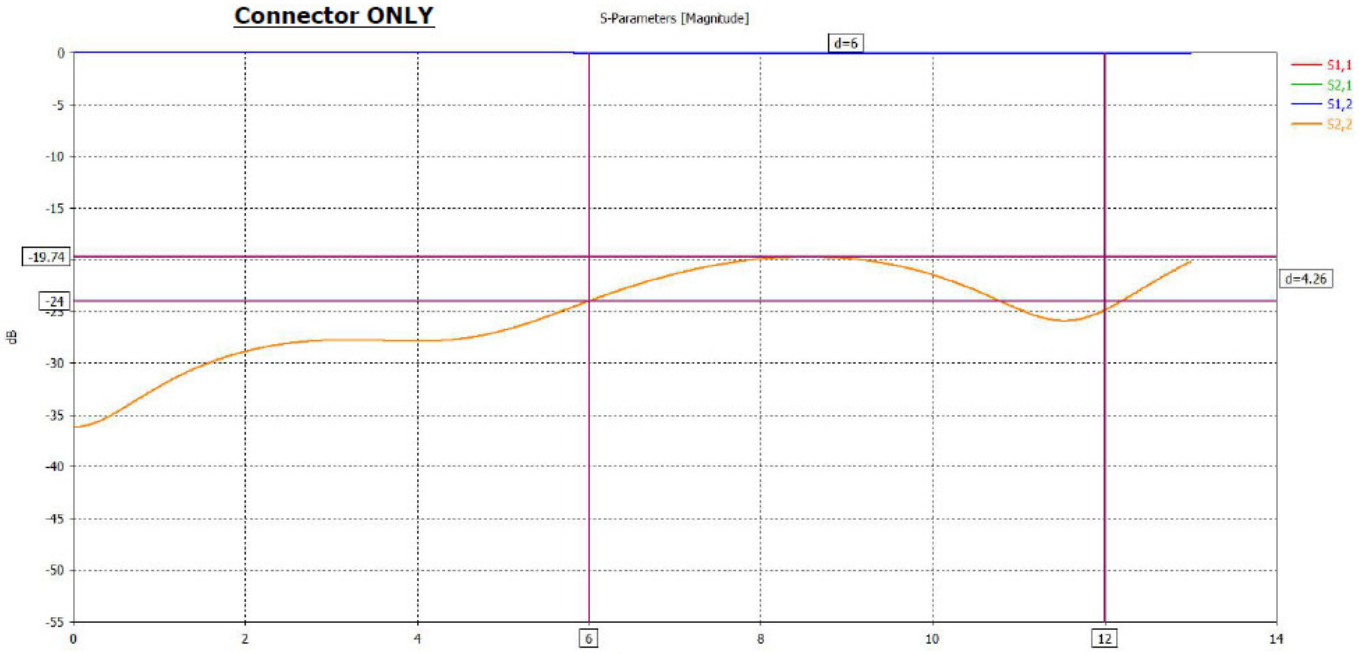




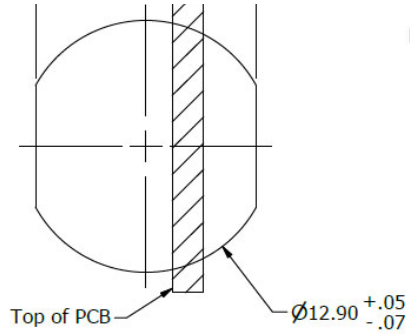
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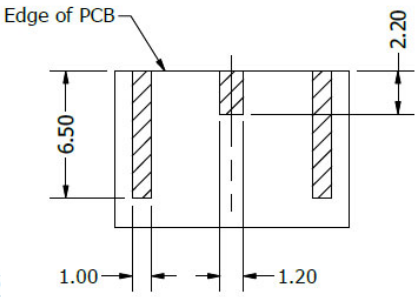
Return Loss Graph



PCB Layout and Panel Cutout



Recommended Panel Cut Out



Recommended PCB Footprint

Suggested PCB layout intended as starting point for design iteration

