CAMBRIDGE ELECTRONIC INDUSTRIES

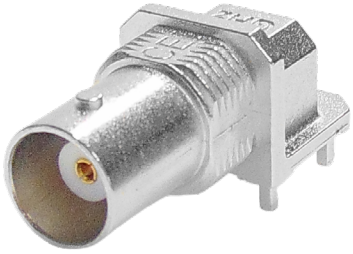
50Ω BNC Socket 12GHz Right Angle Bulkhead, 3.5mm Leg

Part Number ZBS-12-RB35-NN
Issue 1.0

General Description

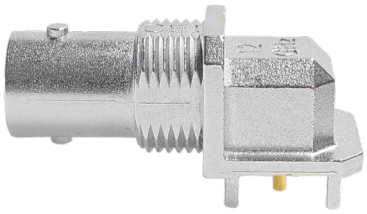
The ZBS-12-RB35-NN connector is a PCB right angle mounting BNC socket for PCB thickness's up to 2.5mm. This BNC connector offers a high frequency of up to 12GHz matched to the 50 ohm impedance connection offering a higher powered signal compared to the standard 75 ohm used for Broadcast.

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)		1.17 (max) 0-6GHz 1.25 (max) 6-12GHz
Dielectric Withstanding Voltage		1500Vrms
Insulation Resistance		≥5000MΩ
Contact Resistance	Centre Contact	≤ 1.5mΩ
	Outer Contact	≤ 1.0mΩ

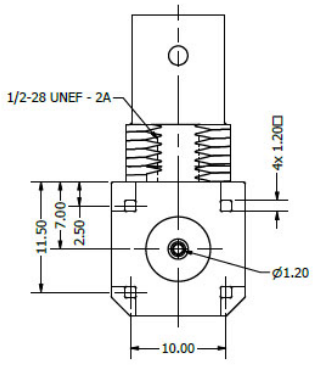


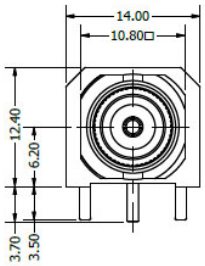
Materials

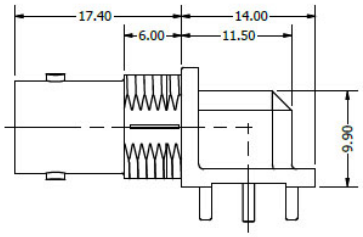
Centre Pin	PhosBronze / Au
Metal Parts	Die Cast Zinc/Ni
Insulators	PTFE

Environmental

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

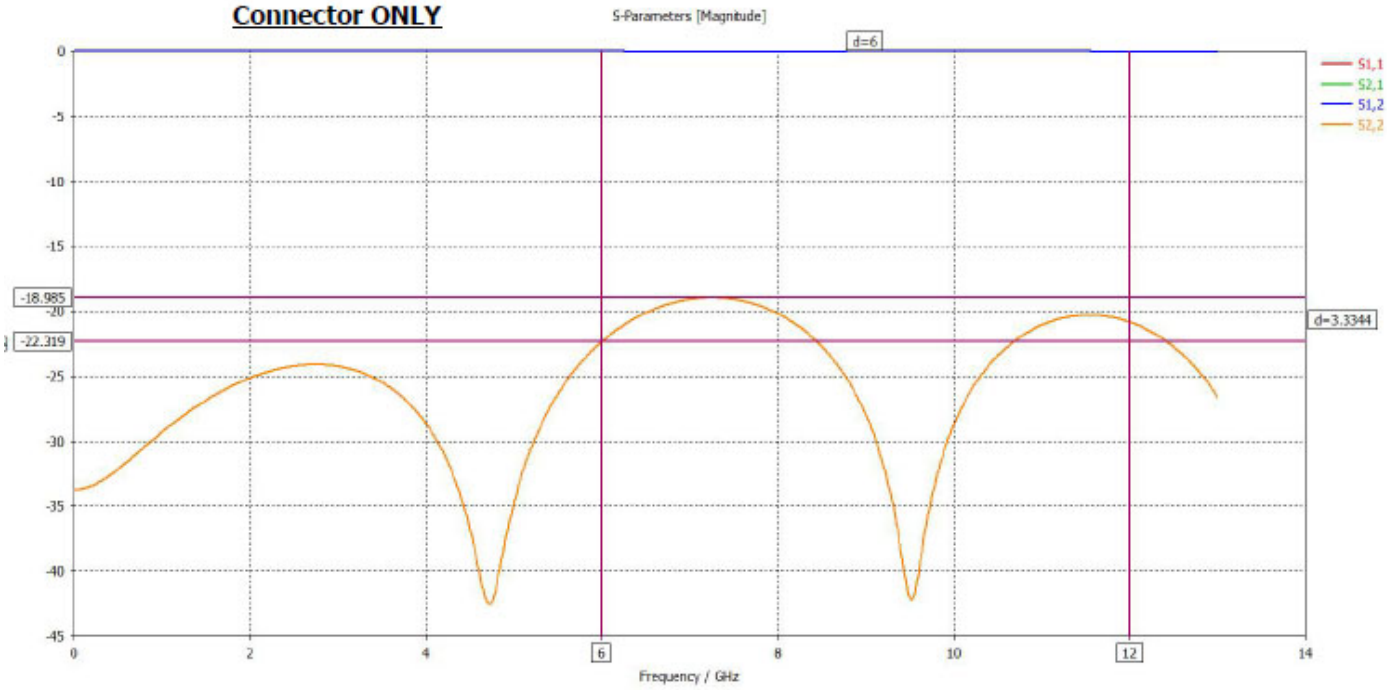




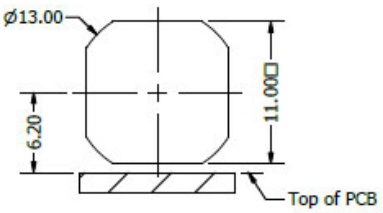


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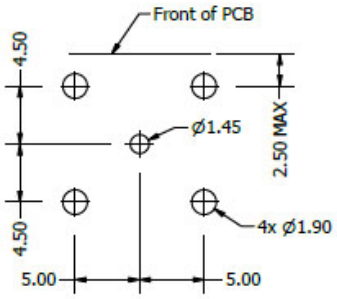
Return Loss Graph



PCB Layout and Panel Cutout



Recommended Panel Cut Out



Recommended PCB Footprint

Suggested PCB layout intended as starting point for design iteration

PCB substrate assumed to be Dk 3.65

