

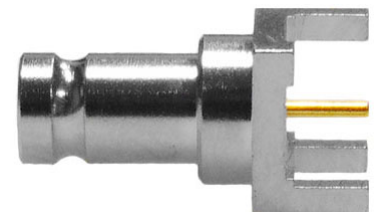
## General Description

The XGS-06-TE27-NNI is a top entry PCB mounted, short body connector which conforms to the standard of SMPTE ST 2081-1, allowing bit-rates of 5.94Gbit/s over a single coaxial connection. The 8mm pitch of the connector enables double wiring densities and is optimised for use in 6G HD-SDI applications. The connector features 3 legs with a leg length of 2.7mm.



## Electrical

|                                 |                |                                        |
|---------------------------------|----------------|----------------------------------------|
| Impedance                       |                | 75Ω                                    |
| Frequency Range                 |                | 0-6GHz                                 |
| Working Voltage                 |                | 250Vrms                                |
| Reflection Factor (VSWR)        |                | 1.18 (max) 0-3GHz<br>1.32 (max) 3-6GHz |
| Dielectric Withstanding Voltage |                | >750Vrms                               |
| Insulation Resistance           |                | ≥1000MΩ                                |
| Contact Resistance              | Centre Contact | ≤ 4.0mΩ                                |
|                                 | Outer Contact  | ≤ 2.5mΩ                                |

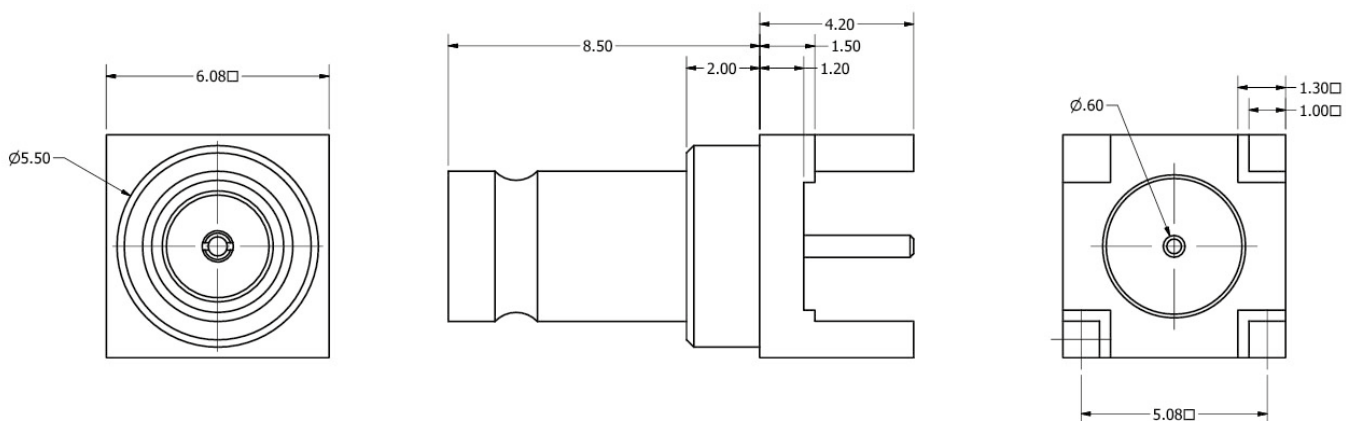


## Materials

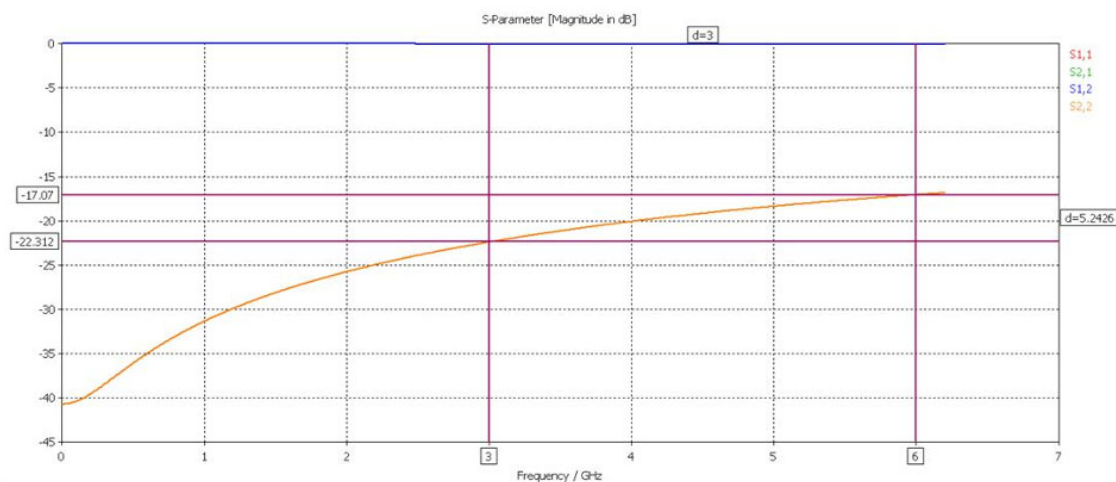
|             |                |
|-------------|----------------|
| Centre Pin  | BeCu / 10 μ"Au |
| Metal Parts | Brass/Ni       |
| Insulators  | PTFE           |

## Environmental

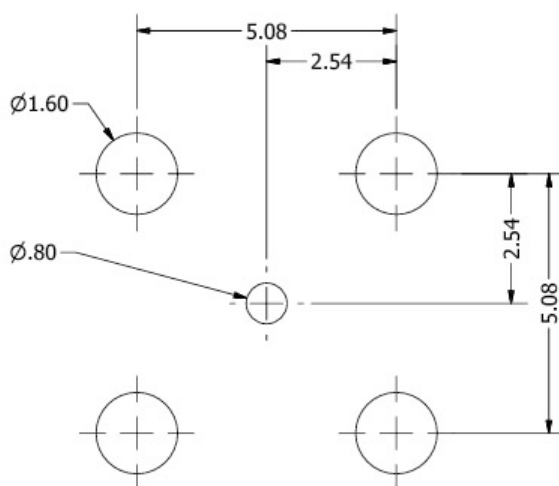
|                |                    |
|----------------|--------------------|
| Connector Type | DIN 1.0/2.3 Female |
| Temp Range     | -65 to +85°C       |
| Mating Cycles  | 500                |



## Return Loss Graph



## PCB Layout



PCB Footprint