

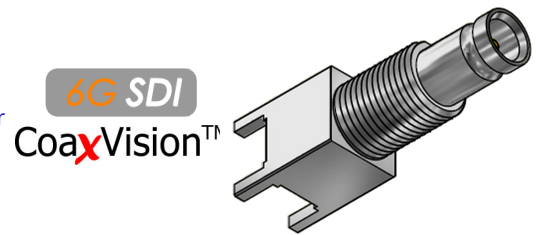
# 6GHz DIN 1.0 / 2.3 Coaxial Connectors

## Top Entry PCB Bulkhead Mounted Connector

### Part Number C-SX-179

#### General Description

The C-SX-179 is a top entry PCB bulkhead mounted 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 and low profile of the connector enables double wiring densities and is optimised for use in 6G HD-SDI applications. The connector is supplied with a nut.



#### Electrical Specification

Impedance:	75Ω
Frequency Range:	0-6GHz
Working Voltage:	250Vrms
Dielectric Withstanding Voltage:	750Vrms
Reflection Factor ( $V_{SWR}$ ):	1.11 <sup>(max)</sup> DC - 3GHz 1.29 <sup>(max)</sup> 3 - 6GHz
Contact Resistance:	Centre contact 4.0mΩ Outer contact 2.5mΩ
Insulation Resistance:	>1000M Ω
Connector Type:	Female

#### Materials

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

#### Environmental

Temp Range:	-65 to +85°C
Mating Cycles:	500
Vibration:	MIL-STD-202 Method 204 test conditions B
Salt Spray:	MIL-STD-202 Method 101 test conditions B

#### Processing

Maximum wave and hand soldering temperature 265°C

#### Features

- Meets SMPTE ST 2081-1 Standard
- Optimised for 6G HD-SDI applications
- 8mm pitch can double wiring densities
- Secure latching system compatible with standard 1.0/2.3

