## **ELECTRONICS** Electrical Simulation Report For PicoRaptor 1

Name

## 1.0 SPECIFICATION

2.0 SETUP



Part Number	P-R109A
Revision	A
Material	BeCu-Ni-Au
X-Y-Z Size	1.60mm x 0.965mm x 0.20mm
Software Used	CST Studio Suite 2022
Simulation	S11 (Return Loss)
	S21 (Insertion Loss)
	S31 (Near End Crosstalk)
	S41 (Far End Crosstalk)
	Inductance
	Capacitance
Pitching	0.50mm
Pin Thickness	0.20mm
Configuration	GSG & GSSG
	ALL

PicoRaptor 1

## 3.0 DIAGRAM



**GSG** Configuration

**GSSG** Configuration

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## 5.0 DATA EXTRACTION

Electrical Specifications	Value	
Q11 (DL)	-10 dB @	29.8 GHz
511 (KL)	-20 dB @	7.8 GHz
S21 (IL)	-1 dB @	35.4 GHz
	-10 dB @	12.8 GHz
531 (NEXT)	-20 dB @	3.3 GHz
S41 (FExT)	-20 dB @	15.8 GHz
Canaaitanaa	Ground:	0.06 pF
Capacitance	Mutual:	0.085 pF
Inductoria	Self:	0.62 nH
Inductance	Mutual:	0.23 nH

END OF REPORT 18 December 2024