

PAD ROL® 200

FOR QFN, DFN, AND OTHER PAD-STYLE APPLICATIONS

Your Solution for Analog / Mixed Signal / RF Testing

Johnstech's patented ROL® technology provides excellent electrical performance and proven mechanical reliability for Precision Analog, Mixed Signal and RF applications. The ROL® 200 Series provides Contact/Elastomer configurations for the unique challenges of matte tin and NiPdAu packages.

ROL [®] 200 Contacts	Device Platings
Gold-Plated	Matte Tin & Tin-Based
Low-Force XL-2	Nickel Palladium Gold

Characterization

ROL® 200 Contactors are ideal for Manual Device Evaluation, Lab Testing, Prototyping and Characterization

- Designed to test to 20 GHz
- · Reliable and repeatable results
- Lab Performance correlates to Production Test Floor
- Robust Manual Actuator life of 10k+ insertions

FEATURES & BENEFITS		
FREQUENCY	26.4GHz Matte Tin; 18.5GHz NiPdAu	
PITCH	≥ 0.3 mm	
TEMPERATURE	-40°C to 155°C	
CURRENT CARRY CAPABILITY @ 100%	3.8A Matte Tin; 3.0A NiPdAu	

Production Test

The "rolling contact" design of the ROL® Contactor, which creates a self-cleaning wipe action, provides extensive Production Test benefits:

- Consistent Contact Resistance
- · Optimized Electrical Performance
- · Higher First Pass Yield
- Repeatable Site-to-Site Performance
- Longer MTBA (Mean Time Between Assists)
- Prolonged Load Board Life
- Simple Maintenance & Rebuilding
- Improved OEE (Overall Equipment Efficiency)
- Lower Overall Cost of Test



Gold-Plated Contact Profile Matte Tin Configuration



Low-Force XL-2 Contact Profile NiPdAu Configuration



DL-VCMA *Plus*™ Double-Latch Vertically Compliant Manual Actuator



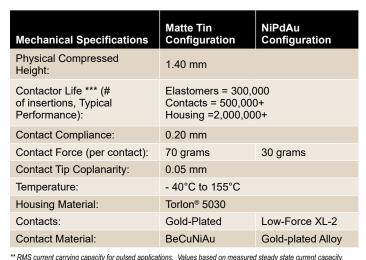
SL-VCMA Single-Latch Vertically Compliant Manual Actuator



PAD ROL® 200

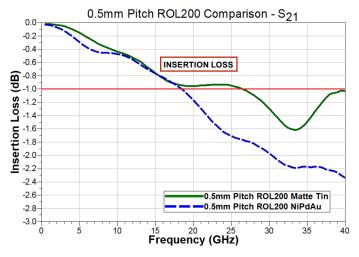
Matte Tin Configuration	NiPdAu Configuration
2.00 mm	2.07 mm
Self: 0.37 nH Mutual: 0.17 nH	Self: 0.55 nH Mutual: 0.24 nH
Ground: 0.17 pF Mutual: 0.07 pF	Ground: 0.18 pF Mutual: 0.12 pF
-1dB @ 26.4 GHz	-1dB @ 18.5 GHz
-20dB @ 3.9 GHz	-20dB @ 5.8 GHz
-20dB @ 13.5 GHz	-20dB @ 29.5 GHz
30 mΩ	<20 mΩ
3.8A, 6.0A, 9.8A	3A, 5.1A, 9.3A
3.8A, 5.3A, 37.6A	3.0A, 4.2A, 29.9A
<1pA @ 10V	
1.58 mm	
	Configuration 2.00 mm Self: 0.37 nH Mutual: 0.17 nH Ground: 0.17 pF Mutual: 0.07 pF -1dB @ 26.4 GHz -20dB @ 3.9 GHz -20dB @ 13.5 GHz 30 mΩ 3.8A, 6.0A, 9.8A <1pA @ 10V

NOTE: Specifications for 0.5mm pitch configurations shown here. These specifications are based on a combination of internal and third-party measured testing.

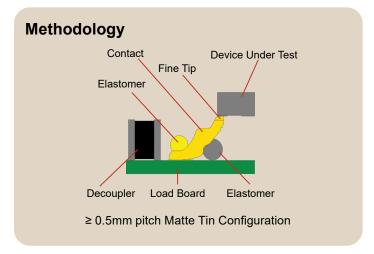


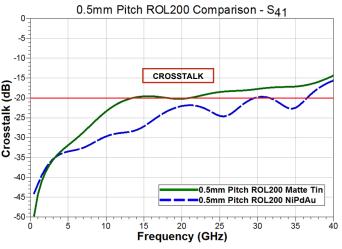
RMMs current carrying capacity or pulsed applications. Values based on measured steady state current capacity, standardized to 1 Hz test cycle, 20°C temperature rises. Higher currents allowed for higher temperature rises.

*** Contact, elastomer, and housing life values are TYPICAL based on Johnstech internal testing. Actual production life will vary based on a wide range of variables including: handler, Contactor, and load board interface; handler plunge depth and velocity; device presentation; alignment plate condition; package plating material and characteristics; test floor conditions; maintenance activities; mounting/fastening techniques; site-to-site coplanarity; docking coplanarity; and temperature extremes.









Johns<u>tech</u>°

Johnstech International Corporation • 1210 New Brighton Boulevard • Minneapolis, MN 55413-1641 USA Tel 612.378.2020 • Fax 612.378.2030 • www.johnstech.com • E-mail info@johnstech.com

internal and third-party measured testing.
* Test conditions: 300 msec pulse, 20°C temperature rise. Higher currents allowed for higher temperature rises.