

The Automotive Test Solution That Drives Toward Higher Test Yields

As a designer of high performance devices for the automotive industry, you know that your applications are growing in both numbers and complexity. Since this trend is expected to continue for the next several years, it is more important than ever to require extreme versatility and superior reliability from your test solutions. Whether you are testing Audio & Infotainment, Vehicle Networking, Powertrain, or other automotive device applications, look for the solution that drives your results toward higher test yields and delivers superior production throughput.

Johnstech's The *Pad ROL*[®] 200 XTTM Automotive Contactor is just the product you're looking for! This Xtreme Temperature (XT^{TM}) capable product is designed to maximize your test results, regardless of your tri-temp testing objectives! Even if you are not testing outside the temperature limits of standard Contactors and sockets, the robust design of the XT^{TM} Contactor provides additional design margin and certainly satisfies even your roadmap requirements.

The *Pad ROL*[®] 200 XT[™] Automotive Contactor improves test yields and increases test reliability through several features, including:

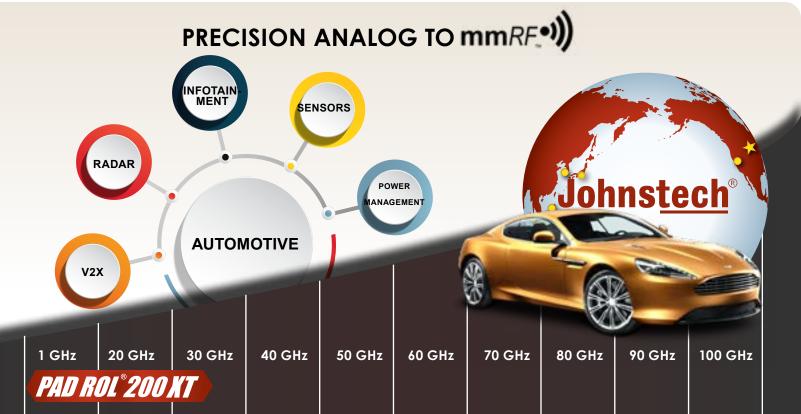
FEATURES & BENEFITS			
FREQUENCY	26.4GHz Matte Tin; 18.5GHz NiPdAu		
РІТСН	≥ 0.3mm		
TEMPERATURE	-65°C to 175°C		
CURRENT CARRY CAPABILITY @ 100%	3.8A Matte Tin; 3.0A NiPdAu		
HIGH VOLTAGE CAPABLE	16.5kV @ 0.5mm 1.65 pA Leakage Current		

Electrical Reliability Improves Yields

- Patented, One-Piece ROL® Contacts
- Delivers Lowest Contact Resistance (CRES)
- High Current Carrying Capability
- Low Inductance
- Extremely Stable Contact Restistance (CRES)
- High Frequency Capability
- Wiping Contact Clears Debris

Mechanically Robust

- Long Life ROL[®] Contacts
- Temperature Test Stability
- Patented Wiping Lengthens MTBA

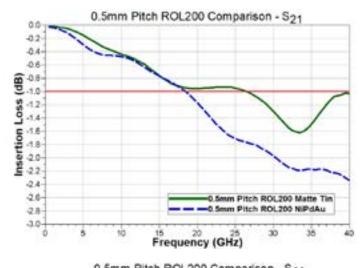


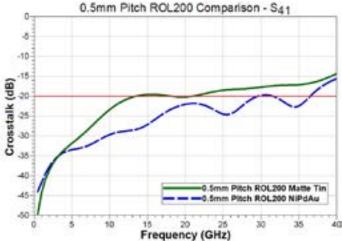
PAD ROL°200 XT

Electrical Specifications	Matte Tin Configuration	NiPdAu Configuration
Inductance:	Self: 0.37 nH Mutual: 0.17 nH	Self: 0.55 nH Mutual: 0.24 nH
Capacitance:	Ground: 0.17 pF Mutual: 0.07 pF	Ground: 0.18 pF Mutual: 0.12 pF
S ₂₁ Insertion Loss (GSG):	-1dB @ 26.4 GHz	-1dB @ 18.5 GHz
S ₁₁ Return Loss (GSG):	-20dB @ 3.9 GHz	-20dB @ 5.8 GHz
Average CRES:	30 mΩ	<20 mΩ
Current Carrying Capacity*: (Duty Cycle 100%, 50%, 1%):	3.8A, 6.0A, 9.8A	3.0A, 5.1A, 9.3A
RMS Current Carrying Capability**: (Duty cycle 100%, 50%,	3.8A, 5.3A, 37.6A	3.0A, 4.2A, 29.9A
Current Leakage:	<1pA @ 10V	
Nearest Decoupling Area:	1.80 mm	

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

* Test conditions: 300 msec pulse, 20°C temperature rise. Higher currents allowed for higher temperature rises.

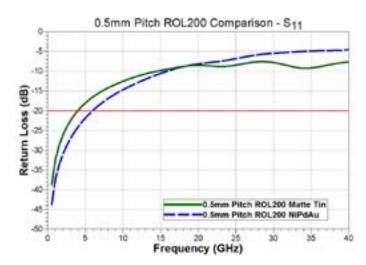


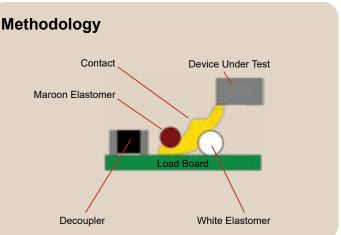


Mechanical Specifications	Matte Tin Configuration	NiPdAu Configuration
Compressed Height: Electrical Length:	1.40 mm 2.00 mm	1.40 mm 2.07 mm
Contactor Life***(# of insertions, Typical Performance):	Elastomers = 300,000 Contacts = 500,000+ Housing = 2,000,000+	
Contact Compliance:	0.20 mm	
Contact Force (per contact):	50 grams	
Temperature:	-65°C to +175°C	
Housing Material:	High Performance Torlon [®]	
Contacts:	Gold-Plated	Low-Force XL-2
Contact Material:	BeCuNiAu	Gold-plated Alloy

** RMS current carrying capacity for pulsed applications. Values based on measured steady state current capacity, standardized to 1 Hz test cycle, 20°C temperature rise. 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. **** Contact force is dependent on many variables. The contact force listed is typical and may not represent your test

solution.





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