Freeform Data Sheet

Characteristics

Actuation Force*	~0.2N min
Force Sensitivity Range*	~0.2N – 20N
Force Resolution	Continuous (analog)
Force Repeatability Single Part	+/- 2%
Force Repeatability Part to Part	+/- 6% (Single Batch)
Non-Actuated Resistance	>10 Mohms
Hysteresis	+10% Average (RF+ - RF -)/RF+
Device Rise Time	< 3 Microseconds
Long Term Drift - kg load, 35 days	< 5% log10(time)
Operating Temperature Performance Cold: -40C after 1 hour Hot: +85C after 1 hour Hot Humid: +85C 95RH after 1 hour	- 5% average resistance change-15% average resistance change+10% average resistance change
Storage Temperature Performance Cold: -25C after 120 hours Hot: +85C after 120 hours Hot Humid: +85C 95RH after 240 hours	- 10% average resistance change -5% average resistance change +30% average resistance change
Tap Durability Tested to 10 Million actuations, 1kg, 4Hz	- 10% average resistance change
Standing Load Durability 2.5kg for 24 hours	- 5% average resistance change
EMI	Generates no EMI
ESD	Not ESD Sensitive
UL	All materials UL grade 94 V-1 or better
RoHS	Compliant
Specifications are derived from measurements taken at 1000 grams, and are given as (one standard deviation/mean), unless otherwise noted	

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*Typical value. Force dependent on actuation interface, mechanics, and measurement electronics.

