

Low Current Electrical Contact Design Application Requirements

Name _____ Email _____
Company _____ Telephone _____

Geometrical Constraints

height _____ variation in working height _____
width _____ contact landing zone _____
length _____ contact position resolution _____

Electrical Conditions

voltage _____ rms _____
pk _____
current _____ rms _____
pk _____
waveform _____
frequency _____

[Complex Wave Description](#)
EMC requirements, duty cycle, special test requirements, etc.

Environmental Conditions

temperature range _____ low _____ vibration amplitude _____
high _____
altitude _____ vibration frequency _____

describe other environmental conditions of the application that can potentially affect the design of the electrical contact including... **atmospheric conditions, debris, liquids, and lubricants**

Electrical Contact Details - Mechanical Criteria

Contact Style
check all that apply...

separable
(plug and unplug ability)

non-separable
(one-time assembly)

swappable
(ability to replace part)

sliding contact
(relative movement between contacting surfaces)

stationary
(little to no relative movement between surfaces)

Contact Density / Pitch

of termination points

of contact points

center-to-center distance between adjacent contacts

Sliding Contact Details (if applicable)
Mating Surface and Relative Movement
check all that apply...

linear

radial / disk

tangential / cylinder

continuous 360° path

Termination Method
(opposite contact surface)

welded

brazed

soldered

other

maximum temperature during assembly

materials used in joining to terminal

Special Considerations During Assembly

add other important details or specific requirements here

Life and Reliability Requirements

IF Linear Sliding Contact...

operating cycles

travel distance / cycle

max linear velocity

IF Separable (plug/connector)...

of connect / disconnect cycles

IF Slip Ring and Brush Assembly...

operating cycles

travel degrees / cycle _____ degrees

max velocity

disk / cylinder radius

required shelf life (max storage time before assembly)

Critical-to-Function Features / Other Info

Please describe "critical-to-function" features or other important application information in the space below...

If this is a replacement to an existing design, please describe the current challenge with the existing part in the space below...