Request Form
ESD (Electrostatic discharge)

Quotation item:	

Customer Details

Company:	Date:
Contact person:	Customer-No.:
Comment (Customer project, Factory standard):	

Conveyed Product

Nearly all electronic, electrical and optoelectronic components are electrostatic discharge-sensitive components (ESDS). Effective ESD protection is required to protect the sensitive components against damage or destruction. This is described in DIN EN Standards Series 61340.

Conveyed product:	Sensitivity of material to be conveyed:
ESD protected area: ☐ no ☐ yes	

ESD Design | mk Protection Concept

Transport media and wear strips with < 10^{11} Ohm surface resistance
PE nuts with < 10^{5} Ohm surface resistance as ESD protection components
Designed for dry environments (humidity > 40 % and < 60 %) and room temperature 20°C
Design is satisfactory: ☐ yes ☐ no (see ESD design | customer protection concept)

ESD Design | Customer Protection Concept

High surface resistance

> 10^{11} Ohm

- ☐ ESD – insulating (Inside def. protection zone, no current can flow)
- ☐ ESD – special case, potentially explosive, “antistatic” (< 10^{11} Ohm/sometimes also < 10^{6} Ohm/low chargeable)
- ☐ ESD – dissipative/special case, customer specification of resistance values (between 10^{5} and 10^{11} Ohm or low limitedley)
- ☐ ESD – conductive -> e.g. plastics with additive up to 10^{5} Ohm

> 10^{5} Ohm

- ☐ ESD – conductive -> e.g. metals with < 10^{2} Ohm
- Special case, earthed -> with conductive connection to earth (inside def. protective zone there is no electrical potential)

Low surface resistance

More Information on ESD Design

Customer-specified resistance range (surface resistance or volume resistance):

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Connection Points

Execution of connection points:	☐ Customer	☐ mk		
Execution by mk:	☐ Connect with each other		☐ Earthing	
Specifications for connection points with regard to position and distance:		☐ no	☐ yes	

Environmental Conditions

Influence on conductivity (e.g. temperature, humidity, dust/dirt, etc.):

Notes/Sketch