SoftPulse® Dome

Dry Conductive Elastomer Dome Electrode

SoftPulse® Dome is a dry conductive elastomer electrode for high-quality biopotential signal acquisition without the use of conductive gel. The three-dimension dome geometry increases contact pressure in order to achieve improve performance for skin contact and easy integration into wearable and medical applications.

KEY FEATURES

- **Ag/AgCl coated surface for stable and low-noise signals**
- **Improved contact pressure to achieve stable signals**
- **Low ETI for high signal quality**
- **Biocompatible and latex-free**
- **High conformability and Flexibility**
- **Designed for high-volume production**



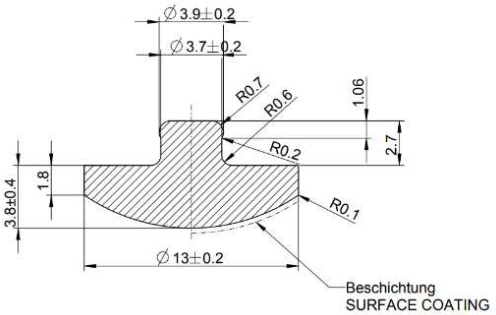
Front
Ag/AgCl Coated Surface



Back
Connector Interface

PRODUCT DIMENSIONS

Size	Ø13 x 6.5 mm
Contact Area	143.1 mm^2
Thickness	3.8 mm



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COMPLIANCE

ISO10993-5/10/23. RoHS. REACH. LATEX FREE.

MECHANICAL SPECS

Material	Conductive Elastomer
Surface (Top)	Ag/AgCl Coating
Surface (Bottom)	Connector Interface
Hardness	82 ± 3 Shore A
Operating Temp.	-25°C to +150°C
Storage Temp.	Room temperature

ELECTRICAL CHARACTERISTICS

Parameters	Condition	Typical	Unit
Electrode Type	-	Dry Conductive Elastomer	-
Signal Types	-	EEG, EOG, EMG, ECG	-
Specific Resistivity	20 – 10’000 Hz	<20	Ω cm
Specific Skin Impedance	10Hz	30-80	10^6 Ω·mm^2
Connector Type	-	Standard 4.0mm ECG Snap	-
Recommended AFE characteristics		Input impedance > 1 G Ω	-

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