SoftPulse® Flat

Dry Conductive Elastomer Flat Electrode

SoftPulse® Flat is a compact dry conductive elastomer electrode designed for seamless integration into wearable and medical devices for non-hairy regions. Its thin, comfortable design enables reliable skin contact and high-quality biopotential signal acquisition without the use of conductive gel, making it ideal for long-term wearable 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**



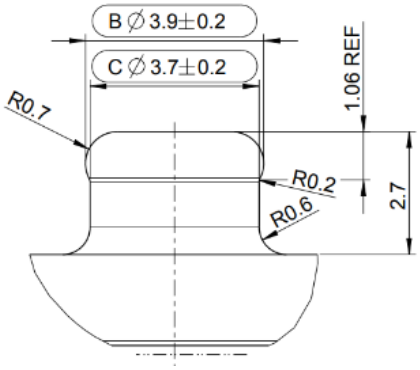
Front
Ag/AgCl Coated Surface



Back
Connector Interface

PRODUCT DIMENSIONS

Size	Ø13 x 4.7 mm
Contact Area	132.7 mm^2
Thickness	2.0 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	10 Hz	30-80	$10^6 \Omega \cdot mm^2$
Connector Type	-	Standard 4.0mm ECG Snap	-
Recommended AFE characteristics		Input impedance > 1 G Ω	-

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