SMALLEST TITANIUM COCHLEAR IMPLANT - ONLY FROM MED-EL

Mechanical Design

Stimulator Housing
- Length: 17.4 mm
- Width: 24.8 mm
- Thickness: 5.9 mm

Overall Implant Dimensions
- Length: 45.7 mm
- Width at coil: 29.0 mm
- Width at stimulator: 24.8 mm
- Thickness at coil: 3.7 mm
- Thickness at stimulator: 5.9 mm
- Weight: 8.6 g

Standard Electrode Array

Contacts
- 24 electrodes arranged as 12 twin surfaces
- Geometric surface per channel: 0.14 mm*

Dimensions
- Distance between electrodes: 2.4 mm*
- Electrode diameter at apical end: 0.5 mm*
- Electrode diameter at basal end: 1.3 mm*

I100 Electronics

Available Features:
- Biphasic pulse shapes
- Sequential stimulation
- Overall amplitude range: 0 - 1200 cu*
- Impedance and Field Telemetry (IFT)
- Maximum pulse rate: 50,704 pulses per second
- Pulse width per phase: 2.08 - 425.0 μs/ph
- Time resolution (nominal values): 1.67 μs
- Auditory Nerve Response Telemetry (ART™)
- Status Telemetry

Additional Features:
- Symmetric triphasic and triphasic precision pulses
- Parallel stimulation
- Precision IFT based on Sigma-Delta modulation

MED-EL is the only cochlear implant manufacturer to offer a choice of two compact, lightweight housing options: the titanium SONATA\textsubscript{Ti}100 and the ceramic PULSAR\textsubscript{Ci}100

:: New generation I100 electronics for unprecedented sound clarity and detail
:: Fast stimulation rates of up to 50,704 pulses per second
:: Smallest stimulator housing and most lightweight implant available
:: Variety of safety features: unique implant ID, individual output capacitors for each channel
:: Variety of electrode arrays designed to achieve complete cochlear coverage, preservation of residual hearing, and for challenging anatomical cases.

The Hearing Implant Company

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