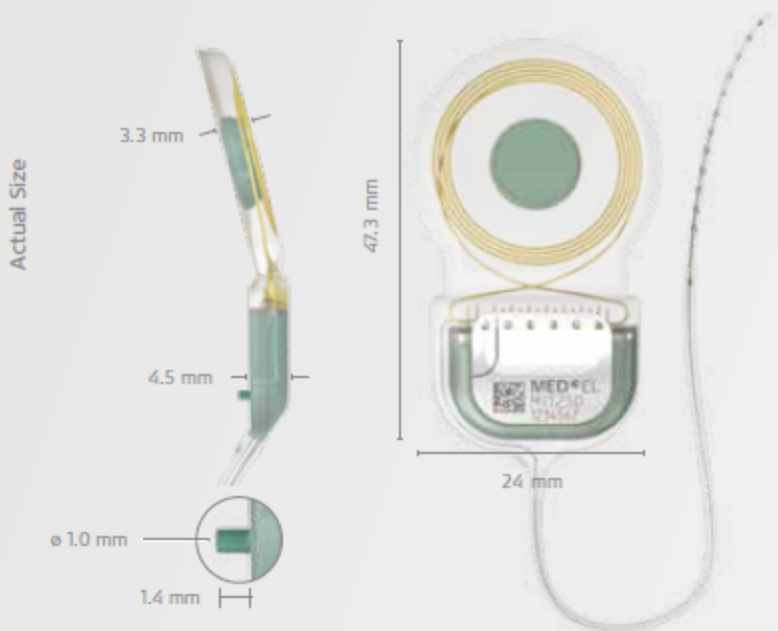


Technical Data

SYNCHRONY 2 PIN Implant (Mi1250)



SYNCHRONY 2 PIN Implant (Mi1250)

Stimulation Features

- Sequential non-overlapping stimulation on 12 electrode channels
- Simultaneous (parallel) stimulation on 2 to 12 electrode channels
- 24 independent current sources
- Stimulation rates of up to 50,704 pulses per second
- Range of pulse phase duration: 2.1–425.0 μ s/phase
- Time resolution (nominal values): 1.67 μ s
- Current range (nominal value): 0–1200 μ A per pulse phase

Pulse Shapes

- Biphasic, symmetric triphasic and triphasic precision pulses

Comprehensive Diagnostic Toolkit

- Status Telemetry
- Impedance and Field Telemetry (IFT)
- Auditory Nerve Response Telemetry (ART™)
- Electrically Evoked Auditory Brainstem Response (EABR)
- Electrically Evoked Stapedius Reflex Threshold (ESRT)

Housing Design

- Impact resistance \geq 2.5 Joule
- Unique PIN variant with fixation pins for additional stability
- Hermetically sealed titanium housing
- Stimulator: 18.8 mm x 24 mm x 4.5 mm
- Coil: 29.0 mm diameter x 3.3 mm thick (typical)
- Weight: 7.7 g

Safety Features

- Independent safety capacitors for each electrode channel
- Unique Implant ID (IRIS)
- Biocompatibility standard according to ISO 10993-1
- Latex-free*

MRI Conditions**

- MR Conditional at 0.2, 1.5 and 3.0 Tesla
- No magnet removal required even at 3.0 Tesla

Removable Magnet

- Magnet removable for minimized image distortion
- Rotatable magnet within hermetic titanium housing
- Self-aligning to external magnetic field
- Conical shape for secure placement