

## 0703 FBG Sensor

W9200-S



### Compact FBG Based Accelerometer

The Pebble can be attached to a machine (pump, compressor, generator or rotor, etc.). Alternatively, Pebble can be incorporated to a structure such as bridge, dam, building, etc. Pebble's ruggedized sealed metallic body and armored cables allows it to be placed in a wide range of environments. Due to its unique design, Pebble has a wide operating frequency range while maintaining a highly level of sensitivity.

#### FEATURES

- Industry-leading Sensitivity:
  - 30 pm/g
  - Sub Hz to 1000 Hz
- Highly Reliable and Ruggedized
  - Sealed Steel Casing with Armored Fiber
  - EMI & RFI Immune
  - Intrinsically Safe

#### USE IN

- Structural Health Monitoring (SHM)
- Condition Monitoring System (CMS)
- Energy System Monitoring
- Production Equipment Diagnostics
- Hazardous Environments

Wavelength Range	1500 nm to 1600 nm, Customizable
Peak Reflectivity	85% min.
FWHM	0.25 nm typ.
Side Lobe Suppression Ratio	15 dB min.
Operating Temperature	-40°C to 80°C
Sensitivity	30 pm/g at 500 Hz
Operating Frequency Range	Sub Hz to 1000 Hz
Resonance Frequency	1100 Hz typ. min.
Transverse Sensitivity	5% max.
Max. Acceleration	70 g Peak

**Order notes to our customers:** The default parameters are as follows. For special needs, please contact sales.

**1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.**

**2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.**