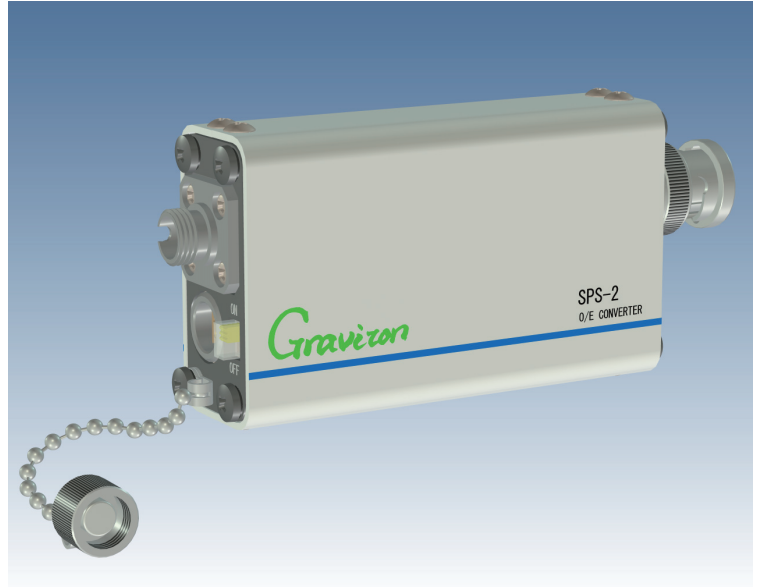


■High Sensitivity:

10kV/W (SPS-1 10kV/W
SPS-2 10kV/W)
100kV/W (SPS-1 100kV/W
SPS-2 100kV/W)

■High Optical Coupling Efficiency:

φ0.8mm, N_{Amax}=0.2 (SPS-1)
φ1.0mm, N_{Amax}=0.5 (SPS-2)



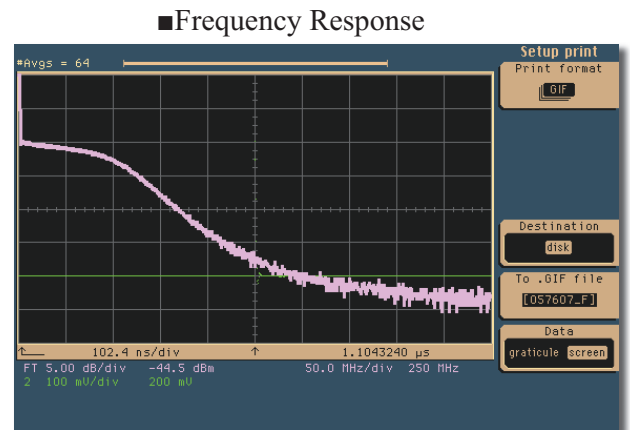
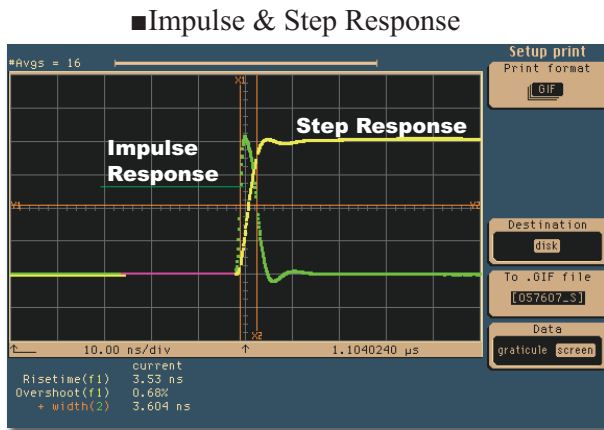
- Very high sensitivity and low noise.
- 10kV/W model(100MHz) and 100kV/W model(15MHz) are available.
- SPS-2: Approx. 100% of coupling efficiency with NA0.5, 1000um fiber.
- Enable to modify higher conversion gain that the customer needs.
(Enable to consult frequency bandwidth, noise, and price)

●The specifications of the SPS series

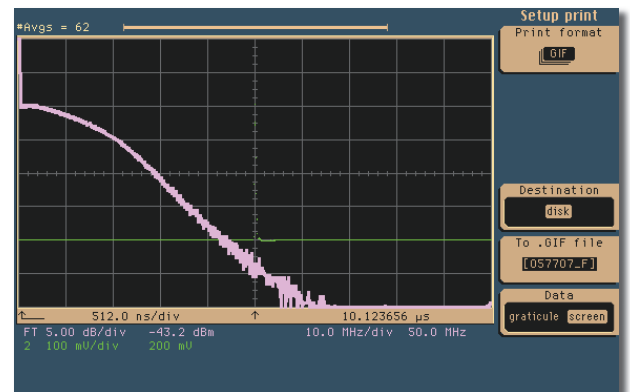
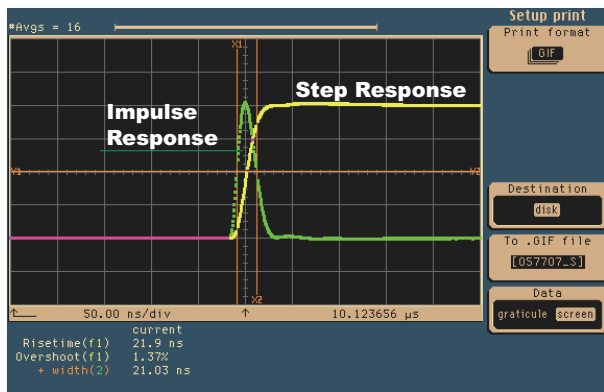
Item	SPS-1 10kV/W	SPS-1 100kV/W	SPS-2 10kV/W	SPS-2 100kV/W
• Acceptable Core Diameter	Less than 0.8mm	Less than 0.8mm	100μm - 1000μm	100μm - 1000μm
• Acceptable Fiber NA	Less than 0.2	Less than 0.2	Less than 0.5	Less than 0.5
• OE Device	Si PIN PD	Si PIN PD	Si PIN PD	Si PIN PD
• Active Area	φ0.4mm	φ0.4mm	φ0.8mm	φ0.8mm
• Peak Sensitivity Wavelength	760nm	760nm	800nm	800nm
• Wavelength Range	320 - 1000nm (Test Condition: More than 1/5 of Peak Sensitivity)	320 - 1000nm (Test Condition: More than 1/5 of Peak Sensitivity)	400 - 1000nm (Test Condition: More than 1/5 of Peak Sensitivity)	400 - 1000nm (Test Condition: More than 1/5 of Peak Sensitivity)
• Conversion Gain	10kV/W @ 850nm	100kV/W @ 850nm	10kV/W @ 850nm	100kV/W @ 850nm
• Maximum Optical Power for Proper Signal Output	-8.2dBm @ 850nm	-18.2dBm @ 850nm	-8.2dBm @ 850nm	-18.2dBm @ 850nm
• Frequency Bandwidth	DC - 100MHz	DC - 15MHz	DC - 100MHz	DC - 15MHz
• Noise Equivalent Power	Less than -40.5dBm	Less than -50.5dBm	Less than -40dBm	Less than -50dBm
• Response Deviation	Electrically +0.5dB, -3.0dB Optically +0.25dB, -1.5dB	Electrically +0.5dB, -3.0dB Optically +0.25dB, -1.5dB	Electrically +0.5dB, -3.0dB Optically +0.25dB, -1.5dB	Electrically +0.5dB, -3.0dB Optically +0.25dB, -1.5dB
• Output Coax Connector	BNC Plug, Option: SMA	BNC Plug, Option: SMA	BNC Plug, Option: SMA	BNC Plug, Option: SMA
• Output Impedance	50Ω	50Ω	50Ω	50Ω
• Output Offset Voltage	Within ±0.5mV	Within ±0.5mV	Within ±0.5mV	Within ±0.5mV
• Wideband Noise Voltage	Less than 0.9mVrms	Less than 0.9mVrms	Less than 1.0mVrms	Less than 1.0mVrms
• Input Optical Connector	FC Receptacle Option: SC, ST, F05, FSMA	FC Receptacle Option: SC, ST, F05, FSMA	FC Receptacle Option: SC, ST, F05, FSMA	FC Receptacle Option: SC, ST, F05, FSMA
• Power Input Connector	LEMO OS-4P	LEMO OS-4P	LEMO OS-4P	LEMO OS-4P
• Supply Voltage	DC±15V (Max +150mA/-50mA)	DC±15V (Max +150mA/-50mA)	DC±15V (Max +150mA/-50mA)	DC±15V (Max +150mA/-50mA)
• Physical Dimension	93 x 44 x 21mm	93 x 44 x 21mm	103 x 44 x 21mm	103 x 44 x 21mm
• Weight	110g	110g	130g	130g

Characteristics of SPS series

SPS-1
10kV/W



SPS-1
100kV/W



SPS-2
100kV/W

