Specifications for Fiber Coupled Phase Modulator

Device 1:

- 10 GHz Lithium Niobate Fiber coupled Phase Modulator at 935nm Wavelength
- Quantity: 3
- Operating Wavelength: 935 nm
- Insertion Loss: no more than 4.5 dB
- Bandwidth: no less than 10 GHz (DC to no less than 10 GHz)
- Modulation Port Vp (@ 1 GHz): no more than 3.5 volts
- S11 (0.13 to 10 GHz): no more than -10 dB
- Optical Return Loss: no less than 45 dB
- Package Dimensions: no more than 3.48” x 0.35” x 0.35” (88.4 mm x 8.9 mm x 8.9 mm)
- RF Connector: female SMA
- Input Fiber: Single mode PM, ~ 1 meter long (5um core PANDA, 900um Hytrel loose tube)
- Output Fiber: Single mode PM, ~1 meter long (5um core PANDA, 900um Hytrel loose tube)
- Optical Connectors: FC/APC (slow axis aligned to the narrow key)

Device 2:

- 10 GHz Lithium Niobate Fiber coupled Phase Modulator at 1645nm Wavelength
- Quantity: 1
- Operating Wavelength: 1645 nm
- Insertion Loss: no more than 4 dB
- Bandwidth: no less than 10 GHz (DC to no less than 10 GHz)
- Modulation Port Vp (@ 1 GHz): no more than 5 volts
- S11 (0.13 to 10 GHz): no more than -10 dB
- Optical Return Loss: no less than 45 dB
- Package Dimensions: no more than 3.48” x 0.35” x 0.35” (88.4 mm x 8.9 mm x 8.9 mm)
- RF Connector: female SMA
- Input Fiber: Single mode PM, ~ 1 meter long (9um core PANDA, 900um Hytrel loose tube)
- Output Fiber: Single Mode PM, ~1 meter long (9um core PANDA, 900um Hytrel loose tube)
- Optical Connectors: FC/APC (slow axis aligned to the narrow key)