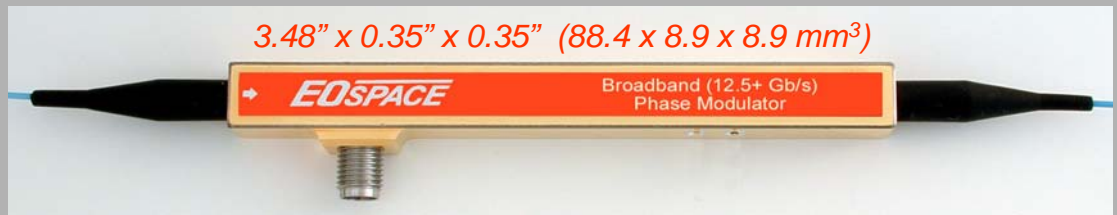
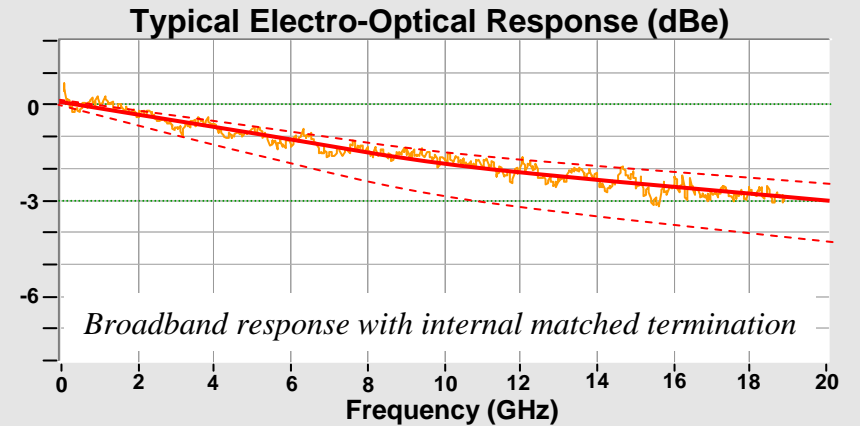


LiNbO₃ Phase Modulator (10-20GHz; Very-low-V_π version)

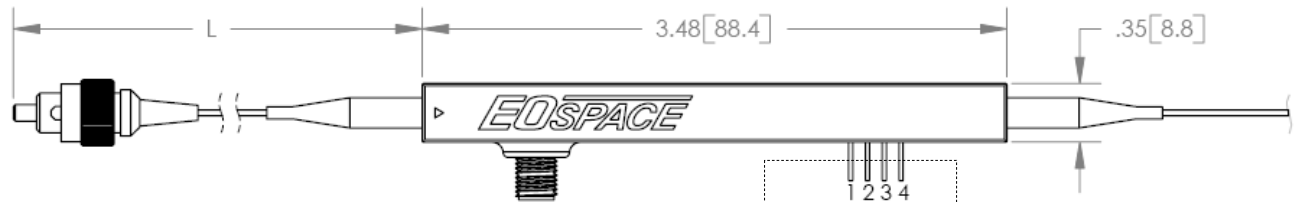


- Very-Low-Drive Voltage (<3V) version
- Traveling-wave electrode structure with (or without) internal matched 50Ω termination
- Bandwidth >10 GHz (std.), or >18GHz version (Larger BW for 40 Gb/s available)
- Low-insertion-loss (<4dB std.,<3dB UL version)
- Dual (or single) polarization transmission (or with integrated polarizer option)
- Polarization modulator/scrambler applications with input fiber aligned at 45° (option)
- Version with output RF port for the traveling-wave electrode (without internal termination)
- Other wavelength $\lambda = 650, 750, 800, 850, 980, 1060, 1300$ nm available

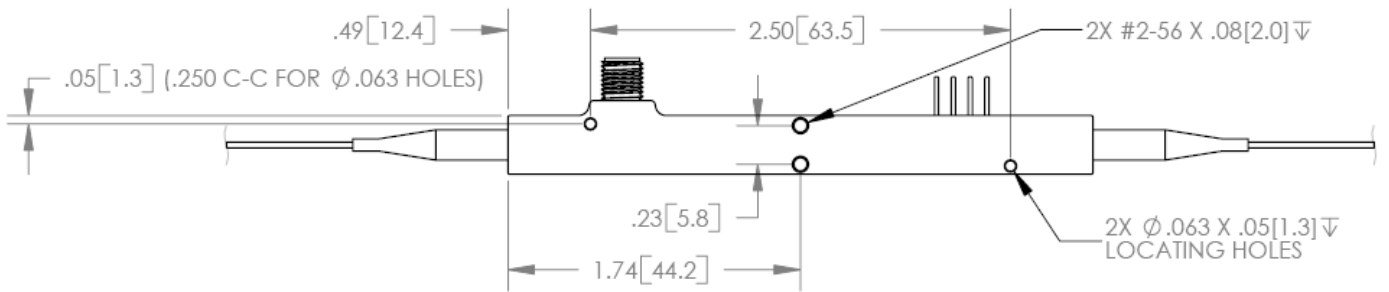
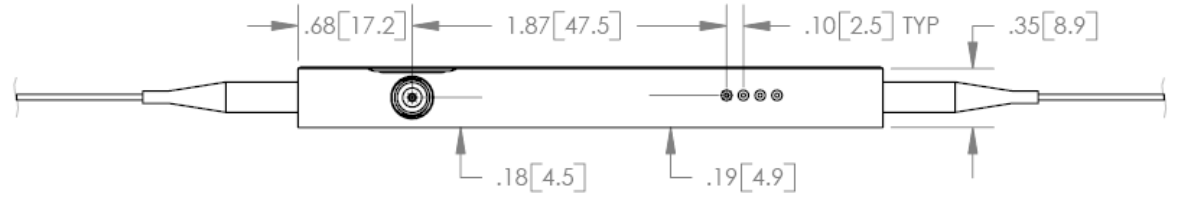
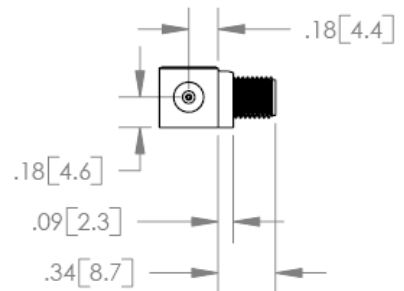


Very-Low-V_π LiNbO₃ Phase Modulator

Optical Insertion Loss	< 4 dB(standard); < 3 dB (Option)
Bandwidth	>10 GHz (with internal termination); (>18GHz, >25GHz available)
RF V _π @ 1GHz	~ 3 V (std.) & <2.5V (custom)
S ₁₁ RF Return Loss	> 10 dB (0.13-10GHz)
Polarization Crosstalk	< -20 dB
Optical Return Loss	> 50 dB
RF Connector	2.92mm or Female K
Input Fiber	PM (Polarization Maintaining)
Output Fiber	PM (std.) or SM (Opt.)
Fiber Connector	FC/UPC (std.) or FC/APC (Opt.)
Wavelength	1550 nm (C & L bands)



Unused (or removed)
pins for phase modulator



Pin	Assignment
1	Case ground
2	Bias (+,-)
3	PD Anode
4	PD Cathode

SPECIFICATIONS

RF port connector	2.92 mm female connector
Bias port pins	Diameter: 0.025 in. Length: 0.23 in.
Input fiber	PANDA Polarization Maintaining
Output fiber	Corning SMF-28 or PANDA PM
Cabling	900 um polyester loose tube
Optical connectors	FC/UPC, FC/APC, others

Customer Drawing

EOSPACE

8711 148th Ave. NE
Redmond, WA 98052

MODEL NUMBER:
PER SPECIFICATION

TITLE:
TITAN K

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SIZE	DWG. NO.	REV
A	CKA1982	-
SCALE: 1:1	CMI08	SHEET 1 OF 1

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