



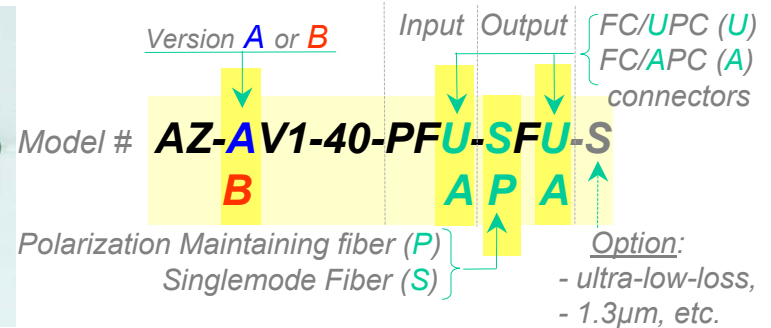
Low-Insertion-Loss OC-768 z-cut Modulators

(Version **A** - Broader Bandwidth, Version **B** - Lower V_{π})

Pre-Chirp: Z-cut LiNbO₃ for fiber-dispersion compensation



3.48" x 0.35" x 0.35" (88.4 x 8.9 x 8.9 mm³)



Version **A** - Broader Bandwidth

Insertion Loss	< 3 dB (standard); ~ 2.0 (Option)
Bandwidth	~ 30 GHz
RF V _{pi} @ 1GHz V _{pi} @ 40Gb/s	< 5.5 V(max); ~ 5 V (typ.) ~ 6 V
S11 Return Loss (0.13-30GHz)	< 10 dB
Optical Return Loss	> 40 dB
Optical Extinction	> 20 dB
DC Bias Port: V _π	< 4 V
RF Connector	Female V
Input Fiber	PM (Polarization Maintaining)
Output Fiber	SM or PM
Fiber Connector	FC/PC or FC/APC
Wavelength	1550 nm
Crystal / Pre-Chirp	z-cut : pre-chirp ($\alpha \sim 0.7$)

Version **B** - Lower Drive Voltage V_π

Insertion Loss	< 3 dB(standard); ~ 2.0 (option)
Bandwidth	~ 25 GHz
RF V _{pi} @ 1GHz V _{pi} @ 40Gb/s	< 4.5 V(max); ~ 4 V (typ.) ~ 5 V
S11 Return Loss (0.13-30GHz)	< 10 dB
Optical Return Loss	> 40 dB
Optical Extinction	> 20 dB
DC Bias Port: V _π	< 6 V
RF Connector	Female V
Input Fiber	PM (Polarization Maintaining)
Output Fiber	SM or PM
Fiber Connector	FC/PC or FC/APC
Wavelength	1550 nm
Crystal / Pre-Chirp	z-cut : pre-chirp ($\alpha \sim 0.7$)



Low-Insertion-Loss OC-768 z-cut Modulators

(Version **A** - Broader Bandwidth, Version **B** - Lower V_{π})

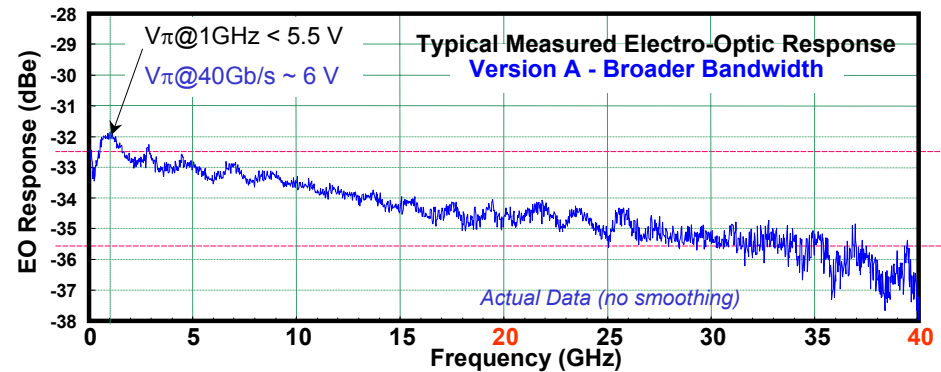


Typical Measured Electro-Optic Response (dBe)

OC-768: Version A

A - Broader Bandwidth

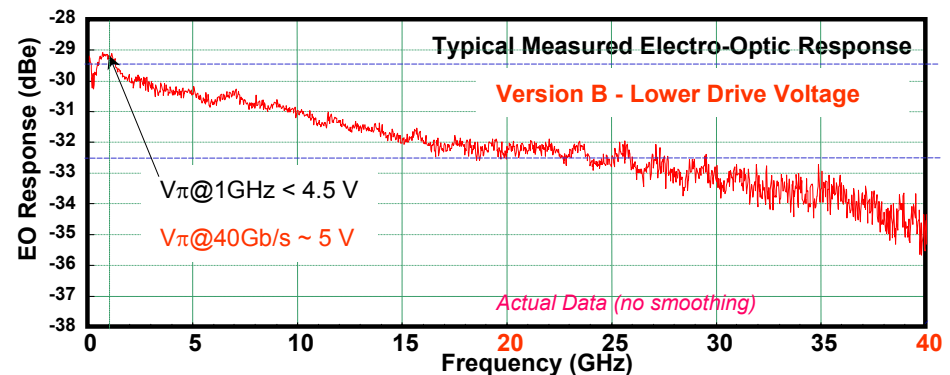
- Insertion loss < 3 dB max
- BW ~ 30 GHz (with respect to 0.13GHz)
- V_{π} @1GHz < 5.5 V max, ~ 5 V typical.
- V_{π} @40Gb/s ~ 6 V
- DC Bias port V_{π} : < 10 V, typically < 4 V



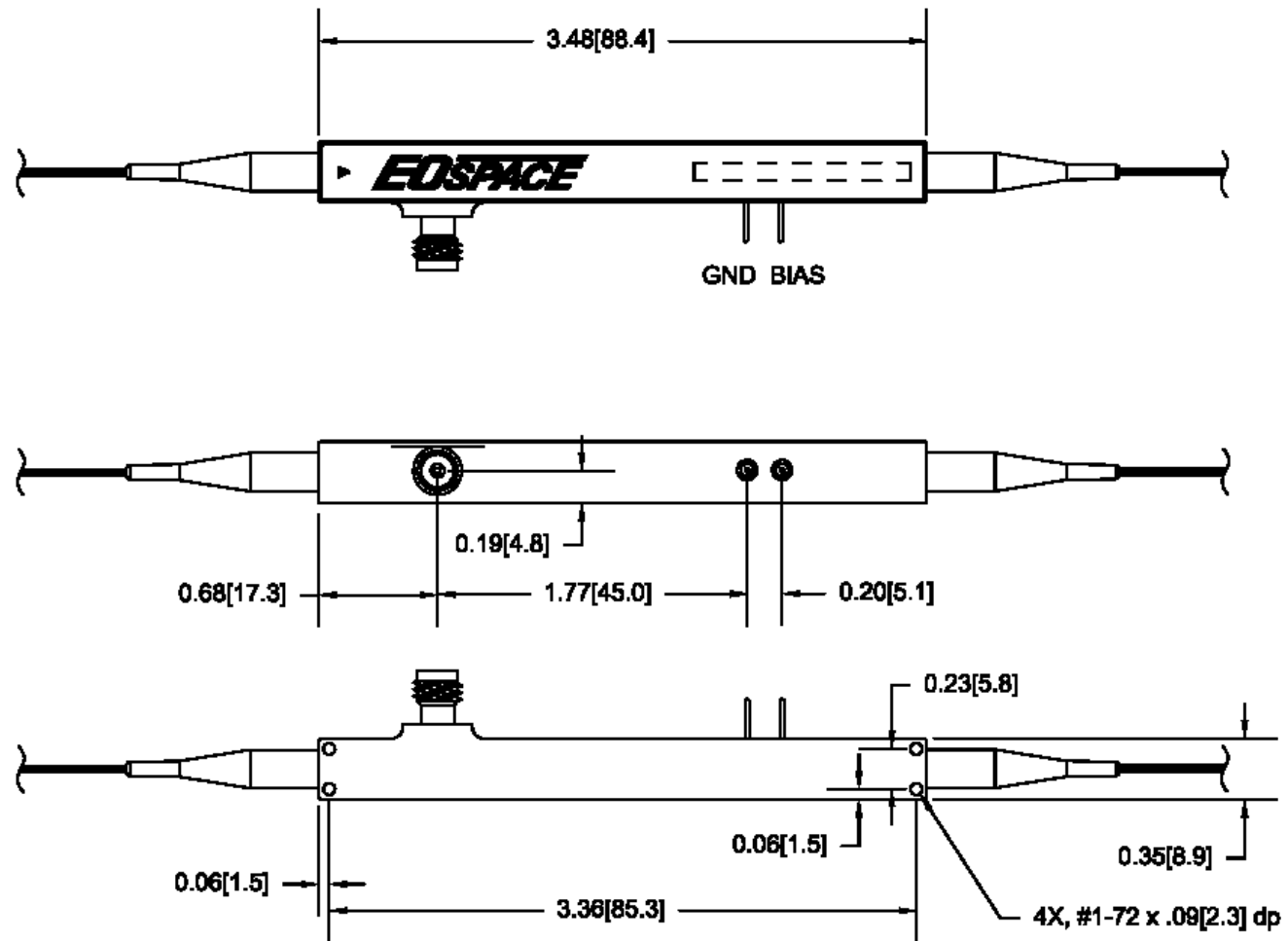
OC-768: Version B

B - Lower V_{π}

- Insertion loss < 3 dB max
- BW ~ 25 GHz (with respect to 0.13GHz)
- V_{π} @1GHz < 4.5 V max, ~ 4 V typical.
- V_{π} @40Gb/s ~ 5 V
- DC Bias port V_{π} : < 10 V, typically < 6 V



PACKAGE OUTLINE



Units: Inches[mm]

© V Connector is a registered trademark of Anritsu Company

Specifications

RF port connector	Anritsu V Connector® V102F female
Bias port pins	Diameter: 0.025 in. Length: 0.22 in.
Input fiber	PANDA Polarization Maintaining
Output fiber	Corning SMF-28 or PANDA PM
Cabling	900 μm polyester loose tube
Optical connectors	FC/UPC, FC/APC, others

Customer Drawing

MODEL NUMBER
PER SPECIFICATION

EDSPACE INC. RESERVES THE RIGHT TO MAKE CHANGES TO THE PRODUCT(S) OR INFORMATION CONTAINED HEREIN WITHOUT NOTICE. NO LIABILITY IS ASSUMED AS A RESULT OF THEIR USE OR APPLICATION.

EDSPACE

8711 148th Avenue NE
Redmond, WA 98052
425-869-8673

NAME V PACKAGE, 88 x 9 x 9

SIZE A	CASE CODE 1JJW5	DWG. NO. C1592	REV. -
SCALE N.T.S.	CMC08	SHEET 1	OF 1