

NIR-DSM-BR-MX-LN-05-P-P-FA-FA-LLNL

All specifications given at 25°C, 1053 nm, unless differently specified. Commercial data-sheet per specification 00015510.

ELECTRICAL				
		Min	Typ	Max
Electro-optic bandwidth @ -3 dB ⁽¹⁾ from 50 kHz	GHz	5	7	-
Optical rise / fall times (10% to 90%)	ps	-	-	150
V _π RF MZ ₁ @ 50kHz	V	-	5.5	6.5
V _π RF MZ ₂ @ 50kHz	V	-	5.5	6.5
V _{bias} V _π MZ ₁	V	-	6.5	9
V _{bias} V _π MZ ₂	V	-	6.5	9
V _{bias1} min DC MZ ₁	V	-	-	2
V _{bias2} min DC MZ ₂	V	-	-	2
Electrical return loss S ₁₁ 0 - 10 GHz ⁽¹⁾	dB	-	-12	-10
Input RF resistance, RF ports 1 & 2	Ω	-	50	-
Input RF resistance, DC ports	MΩ	1	-	-
OPTICAL				
Operating wavelength	nm	-	1053	-
Insertion loss ⁽²⁾	dB	-	5	6
SER MZ ₁ + MZ ₂ (@V _{bias1/2} min)	dB	54	-	-
SER MZ ₁ (@V _{bias1/2} min & V _{bias2} max)	dB	20	-	-
SER MZ ₂ (@V _{bias1/2} max & V _{bias2} min)	dB	25	-	-
V _{bias} ready: SER MZ ₁ +MZ ₂ (@V _{bias1/2} = 0 V)	dB	20	-	-
Default : SER MZ ₁ (@V _{bias1} min & V _{bias2} = 0 V) and SER MZ ₂ (@V _{bias1} = 0 V & V _{bias2} min)	dB	20	-	-
Polarization Extinction Ratio ⁽²⁾	dB	25	-	-
Optical return loss	dB	-40	-45	-
INTERFACES				
Input and output fiber	Polarization maintaining 980 nm Corning PM 98-U25D length: 1.5 meter, buffer diameter: 900 μm			
Package size	Cf fig.1			
Input RF and DC electrodes connectors	K-Female			
CTN connections	Pins			
Optical connectors	FC/APC Wide Key - Slow axis parallel to connector key			
ENVIRONMENTAL				
Operating temperature	+30 °C			
Storage temperature	0 °C to +70 °C			
MAXIMUM RATINGS				
Maximum RF input power (CW mode)	+28 dBm			
Maximum optical input power (CW mode)	+20 dBm			

(1) Measurement @ room temperature (typ. 22°C).

(2) Without optical connectors

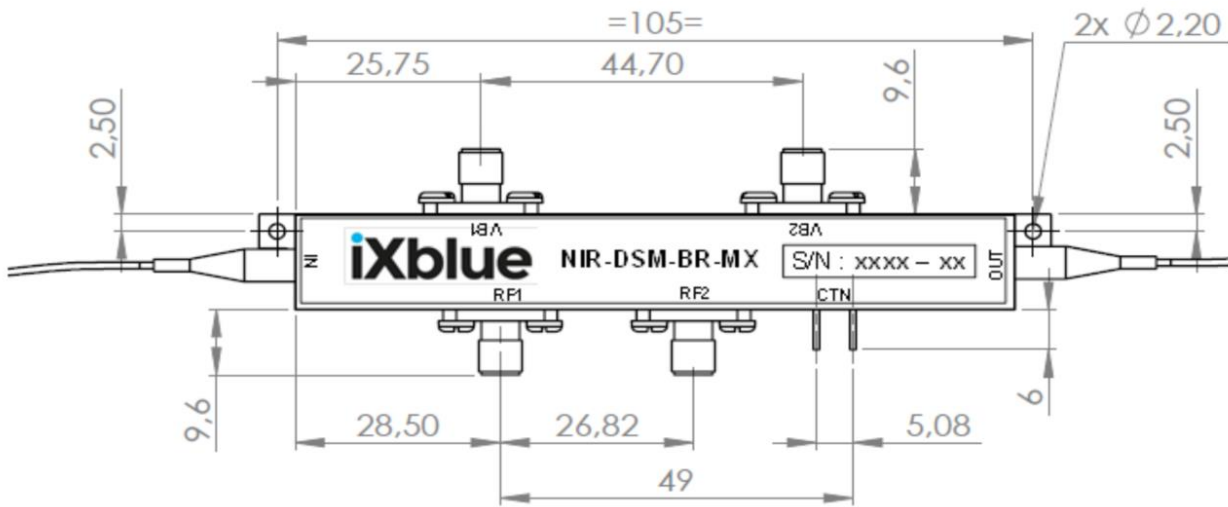


Figure1: Mechanical drawing

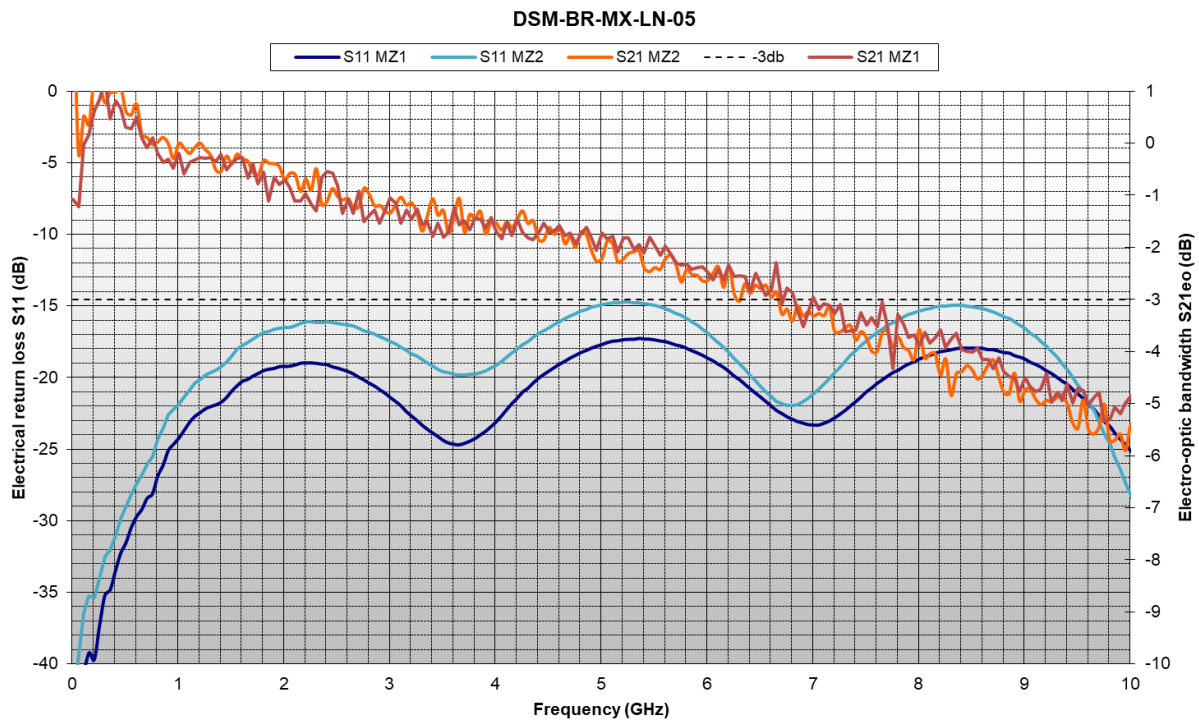


Figure2: [S] parameters

iXblue SAS

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