AM Series Intensity Modulator

Description

The $LiNbO_3$ intensity modulator is widely used in high-speed optical communication system, laser sensing and ROF systems because of well electro-optic performance. The R-AM series based on MZ push-pull structure and X-cut design, has stable physical and chemical characteristics, which can be applied both in laboratory experiments and industrial systems.

Features

- Low insertion loss
- High Bandwidth
- Low half-wave voltage
- Customization option

Applications

- ROF systems
- Quantum key distribution
- Laser sensing systems
- Side-band modulation

Wavelength

- 850nm
- 1064nm
- 1310nm
- 1550nm

Bandwidth

- 300MHz
- 2.5GHz
- 10GHz
- 20GHz

Operating wavelength	850nm	1064nm	1310nm	1550nm	
3dB Bandwidth	~10GHz	~10GHz	~10GHz	~10GHz	~20GHz
Insertion Loss	＜5dB	< 5dB	< 5dB	< 5dB	
Extinction ratio @DC	> 23dB	> 23dB	> 23dB	> 23dB	
V_{Π}@RF (1KHz)	< 3V	< 4V	<4.5V	<5.5V	<6V
V_{Π}@Bias	< 3.5V	＜5V	<6V	<7V	

Ordering Information

R	AM	15	10G	XX	XX
	Type: AM---Intensity Modulator	**Wavelength:** 08---850nm 10---1060nm 13---1310nm 15---1550nm	**3dB bandwidth:** 2.5G---10GHz 10G---10GHz 20G---20GHz 40G---28GHz	**In-Out Fiber type:** PP---PM/PM PS---PM/SMF	**Optical connector:** FA --- FC/APC FP --- FC/PC SP --- Customization

R-AM-08-10G

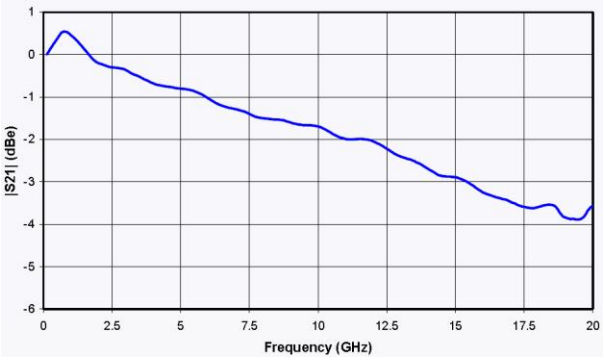
Wavalength 850nm 10GHz Intensity modulator

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	830	850	870	nm
Insertion loss		IL		4.5	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio @DC		ER@DC	20			dB
Dynamic extinction ratio		DER		13		dB
Optical fiber	Input port		850nm PM fiber(125/250μm)			
	output port		850nm PM fiber(125/250μm)			
Optical fiber interface			FC/PC、FC/APC Or Customization			
Electrical parameters						
Operating bandwidth （-3dB）		S_{21}	10	12		GHz
Half-wave voltage Vpi	RF	@1KHz		2.5	3	V
	Bias	@1KHz		3	4	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA(f)			

Limit Conditions

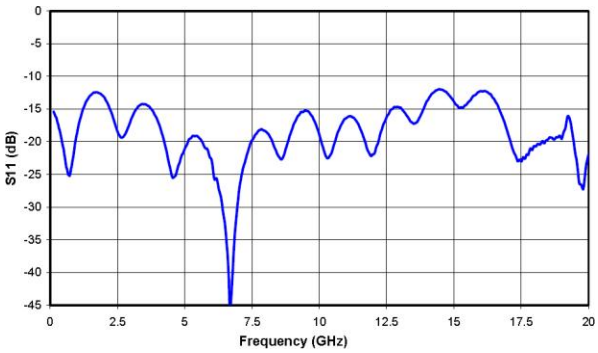
Parameter	Symbol	Unit	Min	Typ	Max
Input optical power@850nm	$P_{in,Max}$	dBm			10
Input RF power		dBm			28
bias voltage	Vbias	V	-15		15
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

S21 Curve



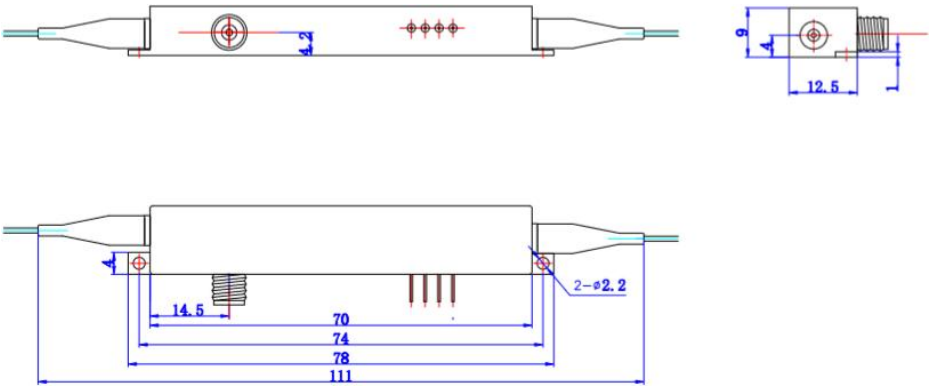
S21 Curve

&S11 Curve



S11 Curve

Mechanical Diagram



PORT	Symbol	Note
In	Optical input port	PM Fiber (125μm/250μm)
Out	Optical output port	PM and SMF option
RF	RF input port	SMA(f)
Bias	Bias control port	1,2 Bias, 34-N/C

RF Driver and Bias control circuit board information are provided on website (www.bjrofoc.com), you can also contact us for more information by email (bjrofoc@rof-oc.com) or WhatsApp（+86-18978968297）

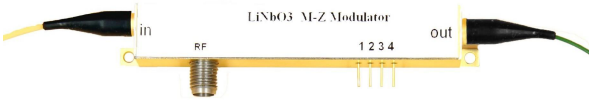
R-AM-13

1310nm Intensity Modulator

The $LiNbO_3$ intensity modulator is widely used in high-speed optical communication system, laser sensing and ROF systems because of well electro-optic effect. The R-AM series based on MZ structure and X-cut design, has stable physical and chemical characteristics, which can be applied both in laboratory experiments and industrial systems.

Features

- Low insertion loss
- Bandwidth: 2.5GHz
- Low half-wave voltage
- Customization option



Applications

- ROF systems
- Quantum key distribution
- Laser sensing systems
- Side-band modulation

Optical parameters

Parameter		Symbol	Min	Typ	Max	Unit
Operating wavelength		λ	1290	1310	1330	nm
Insertion loss		IL		4	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio @DC		ER@DC	20	23		dB
Dynamic extinction ratio		DER		13		dB
Optical fiber	Input port		PM Fiber (125/250μm)			
	output port		PM Fiber or SM Fiber (125/250μm)			
Optical fiber interface			FC/PC、FC/APC Or Customization			

Electrical parameters

Parameter		Symbol	Min	Typ	Max	Unit
Operating bandwidth （-3dB）		S_{21}		2.5		GHz
Half-wave voltage	RF	V_{π}@1KHz		3	4	V
	Bias	V_{π}@1KHz		3.5	4.5	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA(f)			

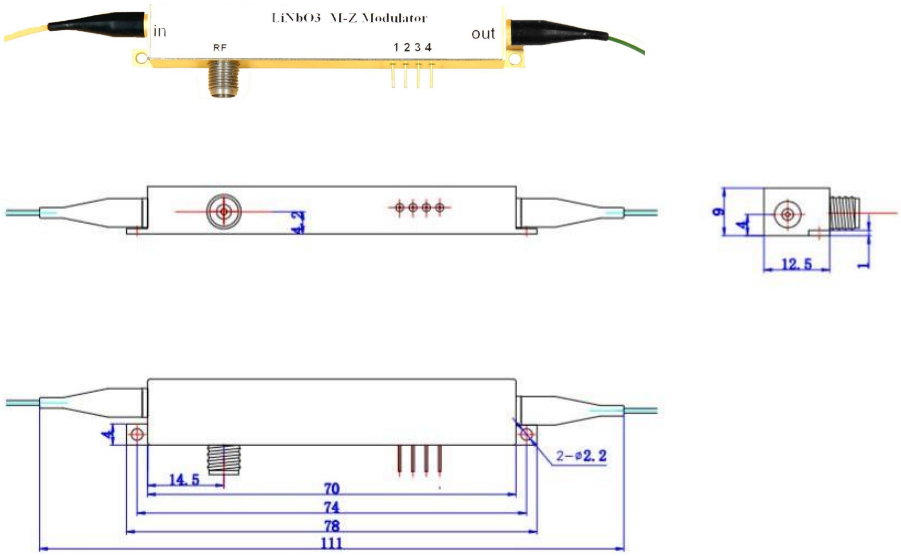
Limit

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
bias voltage	Vbias	V	-15		15
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

Ordering information

R	AM	15	10G	XX	XX
	Type: AM---Intensity Modulator	Wavelength: 08---850nm 10---1060nm 13---1310nm 15---1550nm	Operating bandwidth: 2.5G---10GHz 10G---10GHz 20G---10GHz	In-Out Fiber type: PP---PM/PM PS---PM/SMF	Optical connector: FA---FC/APC FP---FC/PC XX---Customization

Mechanical Diagram



PORT	Symbol	Note
In	Optical input port	PM Fiber (125μm/250μm)
Out	Optical output port	PM and SM Fiber option
RF	RF input port	SMA(f)
Bias	Bias control port	1,2 Bias, 34-N/C

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AM Series Intensity Modulator

Description

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Features

- Low insertion loss
- High Bandwidth
- Low half-wave voltage
- Customization option

Applications

- ROF systems
- Quantum key distribution
- Laser sensing systems
- Side-band modulation

Wavelength

- 850nm
- 1064nm
- 1310nm
- 1550nm

Bandwidth

- 300MHz
- 2.5GHz
- 10GHz
- 20GHz

Operating wavelength	850nm	1064nm	1310nm	1550nm	
3dB Bandwidth	~10GHz	~10GHz	~10GHz	~10GHz	~20GHz
Insertion Loss	＜5dB	< 5dB	< 5dB	< 5dB	
Extinction ratio @DC	> 23dB	> 23dB	> 23dB	> 23dB	
V_{Π}@RF (1KHz)	< 3V	< 4V	<4.5V	<5.5V	<6V
V_{Π}@Bias	< 3.5V	＜5V	<6V	<7V	

Ordering Information

R	AM	15	10G	XX	XX
	Type: AM---Intensity Modulator	**Wavelength:** 08---850nm 10---1060nm 13---1310nm 15---1550nm	**3dB bandwidth:** 2.5G---10GHz 10G---10GHz 20G---20GHz 40G---28GHz	**In-Out Fiber type:** PP---PM/PM PS---PM/SMF	**Optical connector:** FA --- FC/APC FP --- FC/PC SP --- Customization

R-AM-10-10G

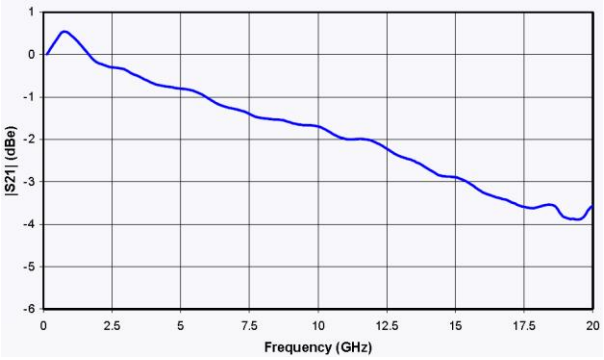
Wavalength 1064nm 10GHz Intensity modulator

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	980	1060	1150	nm
Insertion loss		IL		4	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio @DC		ER@DC	20	25		dB
Dynamic extinction ratio		DER		13		dB
Optical fiber	Input port		980nm PM fiber (125/250μm)			
	output port		980nm PM fiber (125/250μm)			
Optical fiber interface			FC/PC、FC/APC Or Customization			
Electrical parameters						
Operating bandwidth （-3dB）		S_{21}	10	12		GHz
Half-wave voltage Vpi	RF	@50KHz		3.5	4	V
	Bias	@Bias		4	5	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA(f)			

Limit Conditions

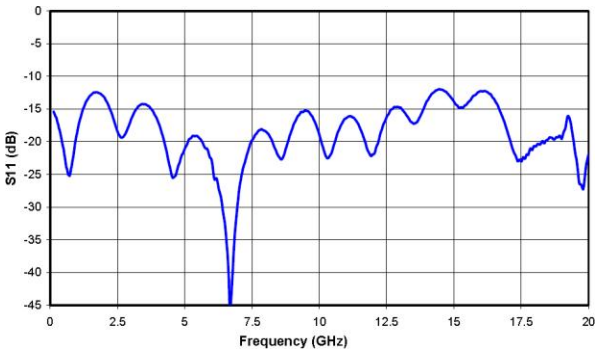
Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
bias voltage	Vbias	V	-15		15
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

S21 Curve



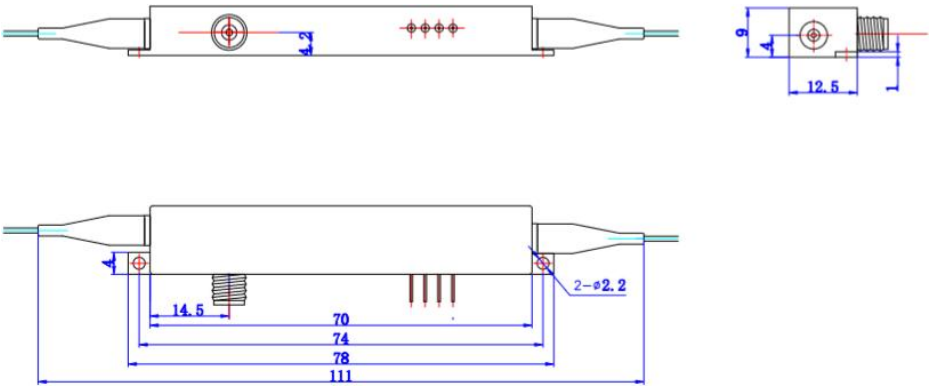
S21 Curve

&S11 Curve



S11 Curve

Mechanical Diagram



PORT	Symbol	Note
In	Optical input port	PM Fiber (125μm/250μm)
Out	Optical output port	PM and SMF option
RF	RF input port	SMA(f)
Bias	Bias control port	1,2 Bias, 34-N/C

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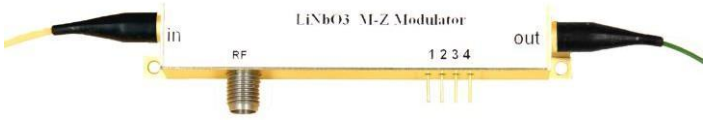
Rof-AM 1064nm Intensity Modulator

Rof-AM series 1064nm lithium niobate electro-optic intensity modulator adopts advanced proton exchange technology. It has the characteristics of low insertion loss, high modulation bandwidth, low half-wave voltage and so on， and mainly used in space optical communication system, cesium atomic time reference, pulse generator, quantum optics and other fields.

- Low insertion loss
- High damage power
- Low half-wave voltage
- High stability



Applications

- Fiber optic sensing system
- Pulsed light modulation system

Features

- Pulse light generator
- Analog transmission link

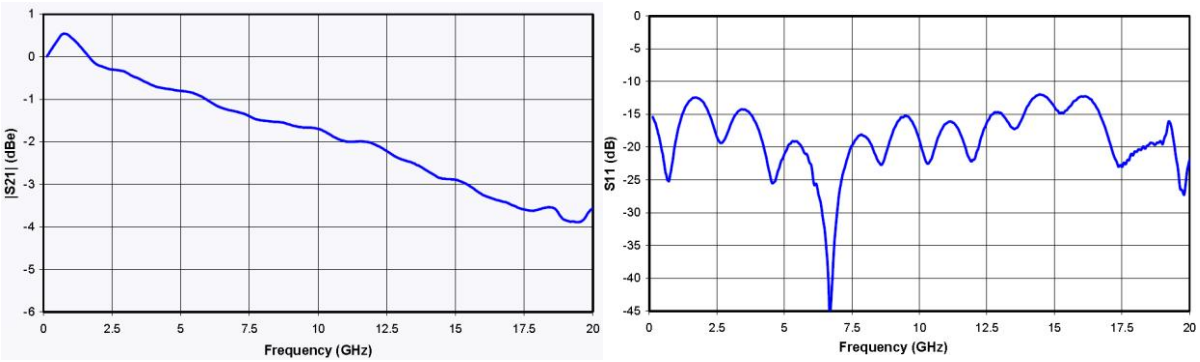
Performance parameter

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	980	1060	1150	nm
Insertion loss		IL	-	4	5	dB
Optical return loss		ORL	-40	-45	-	dB
Switch extinction ratio@DC		ER@DC	20	23	-	dB
Dynamic extinction ratio		DER	12	13		dB
Optical fiber	Input port		PM fiber 980 nm			
	output port		PM fiber 980 nm			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth（-3dB）		S_{21}	300			MHz
Half-wave	RF	Vπ		3	3.5	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA			
Bias pin definition			1,2-Bias 3,4- N/C			

Limit Conditions

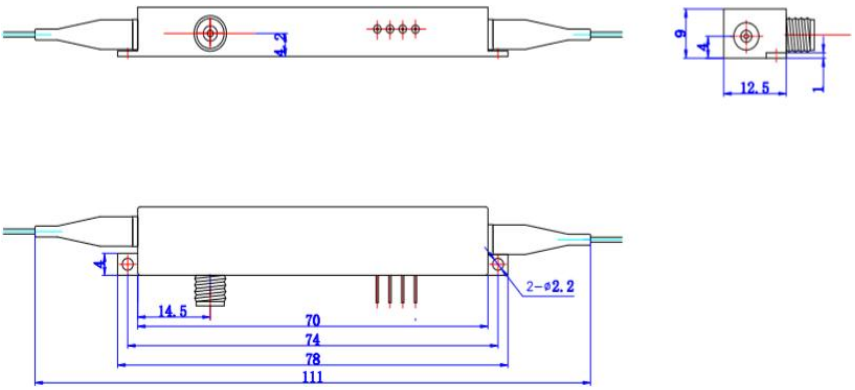
Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
Bias voltage	Vbias	V	-20		20
Operating temperature	Top	℃	0		70
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

Characteristic curve



S_{11}&S_{21}Curve

Mechanical Diagram(mm)



Order information

Rof	AM	10	XX	XX	XX
	Modulator type: AM---Intensity modulator	Working wavelength: 10---1064nm	Operating bandwidth: 300M---DC-300MHz 2.5G---2.5GHz 10G---10GHz	Optical fiber: PP---PM/PM	Facet: FA---FC/APC FP---FC/PC SP---User's customization

*please contact our sales if you have special requirements.

ROF-AM-HER high extinction ratio of electro-optic modulator

ROF-AM-HER series high extinction ratio of electro-optic modulator based on M - Z push-pull structure intensity, has a lower half wave voltage and stable physical and chemical characteristics, using special technology to ensure the device with high extinction ratio of DC, and the device has high response speed, and therefore is widely used in light pulse generator, optical fiber sensing, laser radar, and other fields.

Features

- The extinction ratio is greater than 40dB
- Low insertion loss
- High modulation bandwidth
- Low half wave voltage

Applications

- Optical pulse generator
- Brillouin sensing system
- Laser radar

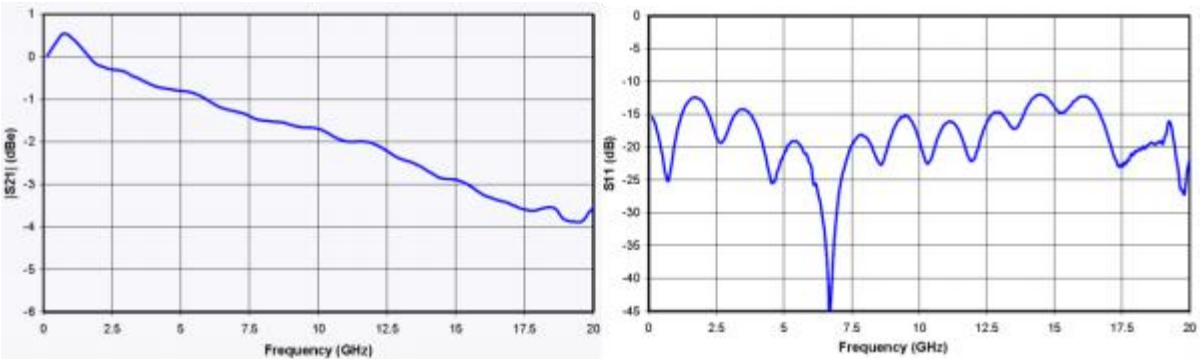
Performance

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		入	1525		1565	nm
Insertion loss		IL		4	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio@DC		ER@DC	35	40	50	dB
Dynamic extinction ratio			Panda PM			
Optical fiber	Input port		Panda PM or SMF-28			
Fiber interface			FC/PC 、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth（-3dB）		S_{21}	10	12		GHz
Half-wave	RF	Vπ@50KHz			5	V
	Bias	Vπ@Bias			7	V
Electrical return loss		S_{11}		- 12	- 10	dB
Input impedance	RF	Z_{RF}		50		Ω
	Bias	Z_{BIAS}	10000			Ω
Operating bandwidth（-3dB）			SMA(f)			

Limit Conditions

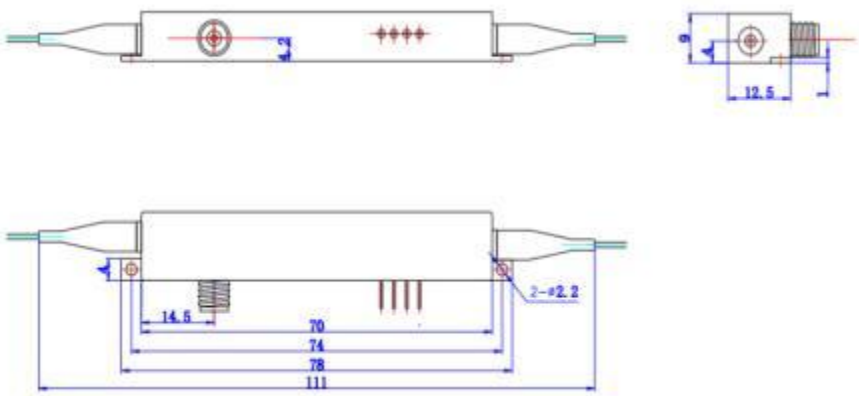
Parameter	Symbol	Min	Typ	Max	Parameter
Input optical power	$P_{in, Max}$	dBm			20
Input RF power		dBm			28
Bias voltage	Vbias	V	-20		20
Operating temperature	Top	ºC	- 10		60
Storage temperature	Tst	ºC	-40		85
Humidity	RH	%	5		90

Characteristic



S_{11}&S_{21}Curve

Mechanical Diagram(mm)



Order information

ROF	AM	HER	XX	XX	XX	XX
	Intensity modulator	High extinction ratio	Wavelength: 15--- 1550nm	Bandwidth: 2.5---2.5GHz 10G--- 10GHz 20G--- 18GHz	Optical fiber: PP---PMF-PMF PS---PMF-SMF	Facet: FA---FC/APC FP---FC/PC SP---User's customization

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AM Series Intensity Modulator

Description

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Features

- Low insertion loss
- High Bandwidth
- Low half-wave voltage
- Customization option

Applications

- ROF systems
- Quantum key distribution
- Laser sensing systems
- Side-band modulation

Wavelength

- 850nm
- 1064nm
- 1310nm
- 1550nm

Bandwidth

- 300MHz
- 2.5GHz
- 10GHz
- 20GHz

Operating wavelength	850nm	1064nm	1310nm	1550nm	
3dB Bandwidth	~10GHz	~10GHz	~10GHz	~10GHz	~20GHz
Insertion Loss	＜5dB	< 5dB	< 5dB	< 5dB	
Extinction ratio @DC	> 23dB	> 23dB	> 23dB	> 23dB	
V_{Π}@RF (1KHz)	< 3V	< 4V	<4.5V	<5.5V	<6V
V_{Π}@Bias	< 3.5V	＜5V	<6V	<7V	

Ordering Information

R	AM	15	10G	XX	XX
	Type: AM---Intensity Modulator	**Wavelength:** 08---850nm 10---1060nm 13---1310nm 15---1550nm	**3dB bandwidth:** 2.5G---10GHz 10G---10GHz 20G---20GHz 40G---28GHz	**In-Out Fiber type:** PP---PM/PM PS---PM/SMF	**Optical connector:** FA --- FC/APC FP --- FC/PC SP --- Customization

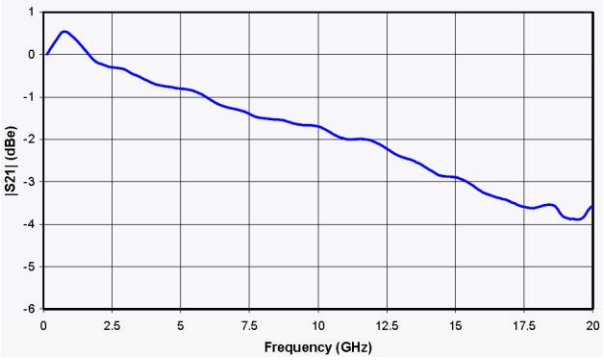
R-AM-15-10G
Wavalength 1550nm 10GHz Intensity modulator

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	1530	1550	1565	nm
Insertion loss		IL		4	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio @DC		ER@DC	20	25	45	dB
Dynamic extinction ratio		DER		13		dB
Optical fiber	Input port		Panda PM Fujikura SM			
	output port		Panda PM Fujikura SM			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth （-3dB）		S_{21}	10	12		GHz
Half-wave voltage Vpi	RF	@50KHz		4.5	5	V
	Bias	@Bias		6	7	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA(f)			

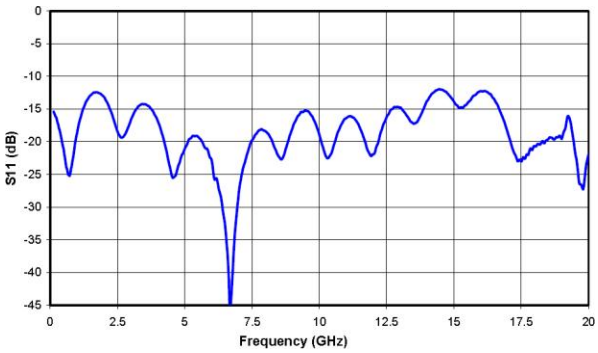
Limit Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
bias voltage	Vbias	V	-20		20
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

S21 Curve &S11 Curve

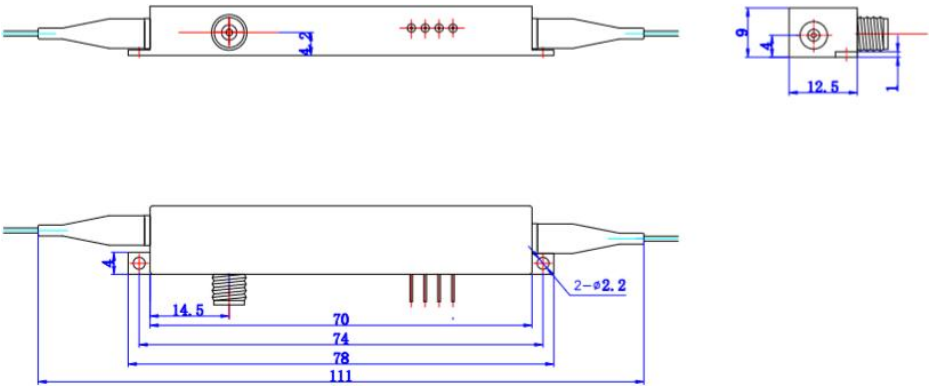


S21 Curve



S11 Curve

Mechanical Diagram



ordering information:

ROF	AM	10	XX	XX	XX
	Modulator type： AM---intensity modulator	Operating wavelength： 10---1064nm	Operating bandwidth： 2.5G---2.5GHz 10G---10GHz 20G---20GHz	Input output optical fiber： PS---PM/SMF PM--- PM/PMF	Connector： FA---FC/APC FP---FC/PC SP---user specified

please contact me if you have special requirement

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Features

- Low insertion loss
- High Bandwidth
- Low half-wave voltage
- Customization option

Applications

- ROF systems
- Quantum key distribution
- Laser sensing systems
- Side-band modulation

Wavelength

- 850nm
- 1064nm
- 1310nm
- 1550nm

Bandwidth

- 300MHz
- 2.5GHz
- 10GHz
- 20GHz

Operating wavelength	850nm	1064nm	1310nm	1550nm	
3dB Bandwidth	~10GHz	~10GHz	~10GHz	~10GHz	~20GHz
Insertion Loss	＜5dB	< 5dB	< 5dB	< 5dB	
Extinction ratio @DC	> 23dB	> 23dB	> 23dB	> 23dB	
V_{Π}@RF (1KHz)	< 3V	< 4V	<4.5V	<5.5V	<6V
V_{Π}@Bias	< 3.5V	＜5V	<6V	<7V	

Ordering Information

R	AM	15	10G	XX	XX
	Type: AM---Intensity Modulator	**Wavelength:** 08---850nm 10---1060nm 13---1310nm 15---1550nm	**3dB bandwidth:** 2.5G---10GHz 10G---10GHz 20G---20GHz 40G---28GHz	**In-Out Fiber type:** PP---PM/PM PS---PM/SMF	**Optical connector:** FA --- FC/APC FP --- FC/PC SP --- Customization

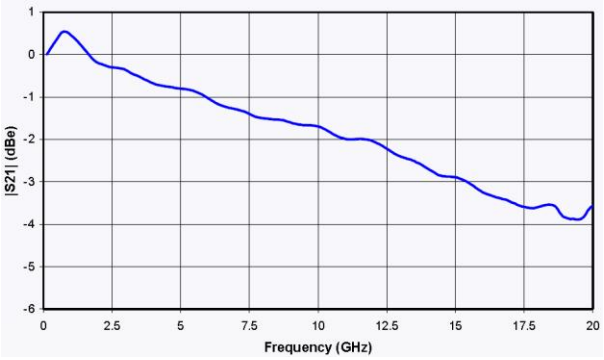
R-AM-15-20G
Wavalength 1550nm 20GHz Intensity modulator

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	1530	1550	1565	nm
Insertion loss		IL		4	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio @DC		ER@DC	20	25	45	dB
Dynamic extinction ratio		DER		13		dB
Optical fiber	Input port		Panda PM Fujikura SM			
	output port		Panda PM Fujikura SM			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth （-3dB）		S_{21}	18	20		GHz
Half-wave voltage Vpi	RF	@50KHz		4.5	5	V
	Bias	@Bias		6	7	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA(f)			

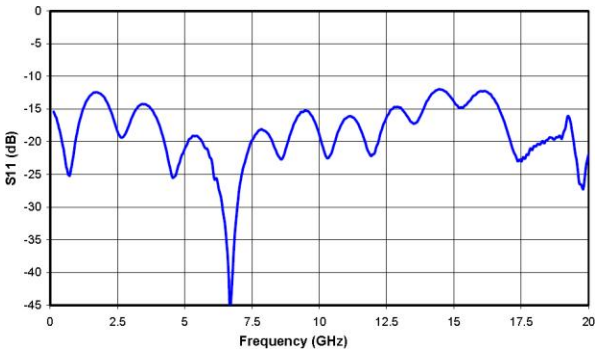
Limit Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
bias voltage	Vbias	V	-20		20
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

S21 Curve &S11 Curve

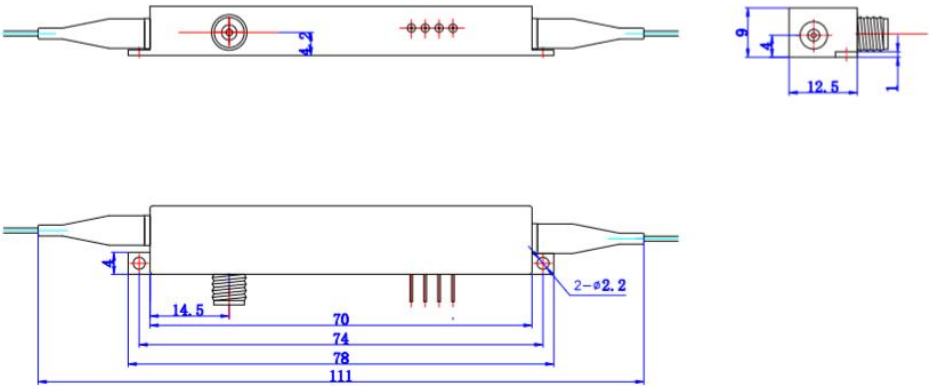


S21 Curve



S11 Curve

Mechanical Diagram



ordering information:

ROF	AM	10	XX	XX	XX
	Modulator type： AM---intensity modulator	Operating wavelength： 10---1064nm	Operating bandwidth： 2.5G---2.5GHz 10G---10GHz 20G---20GHz	Input output optical fiber： PS---PM/SMF PM--- PM/PMF	Connector： FA---FC/APC FP---FC/PC SP---user specified

please contact me if you have special requirement

RF Driver and Bias control circuit board information are provided on website (www.bjrofoc.com), you can also contact us for more information by email (bjrofoc@rof-oc.com) or WhatsApp（+86-18978968297）

AM Series Intensity Modulator

Description

The $LiNbO_3$ intensity modulator is widely used in high-speed optical communication system, laser sensing and ROF systems because of well electro-optic performance. The R-AM series based on MZ push-pull structure and X-cut design, has stable physical and chemical characteristics, which can be applied both in laboratory experiments and industrial systems.

Features

- Low insertion loss
- High Bandwidth
- Low half-wave voltage
- Customization option

Applications

- ROF systems
- Quantum key distribution
- Laser sensing systems
- Side-band modulation

Wavelength

- 850nm
- 1064nm
- 1310nm
- 1550nm

Bandwidth

- 300MHz
- 2.5GHz
- 10GHz
- 20GHz

Operating wavelength	850nm	1064nm	1310nm	1550nm	
3dB Bandwidth	~10GHz	~10GHz	~10GHz	~10GHz	~20GHz
Insertion Loss	＜5dB	< 5dB	< 5dB	< 5dB	
Extinction ratio @DC	> 23dB	> 23dB	> 23dB	> 23dB	
V_{Π}@RF (1KHz)	< 3V	< 4V	<4.5V	<5.5V	<6V
V_{Π}@Bias	< 3.5V	＜5V	<6V	<7V	

Ordering Information

R	AM	15	10G	XX	XX
	Type: AM---Intensity Modulator	**Wavelength:** 08---850nm 10---1060nm 13---1310nm 15---1550nm	**3dB bandwidth:** 2.5G---10GHz 10G---10GHz 20G---20GHz 40G---28GHz	**In-Out Fiber type:** PP---PM/PM PS---PM/SMF	**Optical connector:** FA --- FC/APC FP --- FC/PC SP --- Customization

R-AM-15-40G

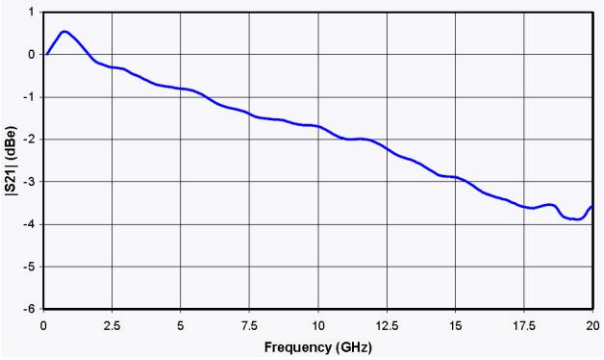
Wavalength 1550nm 40GHz Intensity modulator

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		λ	1525	1550	1565	nm
Insertion loss		IL		4	5	dB
Optical return loss		ORL			-45	dB
Switch extinction ratio @DC		ER@DC	20	23	45	dB
Dynamic extinction ratio		DER		13		dB
Optical fiber	Input port		Panda PM			
	output port		Panda PM or SMF-28			
Optical fiber interface			FC/PC、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth （-3dB）		S_{21}	26	28	30	GHz
Half-wave voltage Vpi	RF	@1KHz		5	5.5	V
	Bias	@1KHz		6	7	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA(f)			

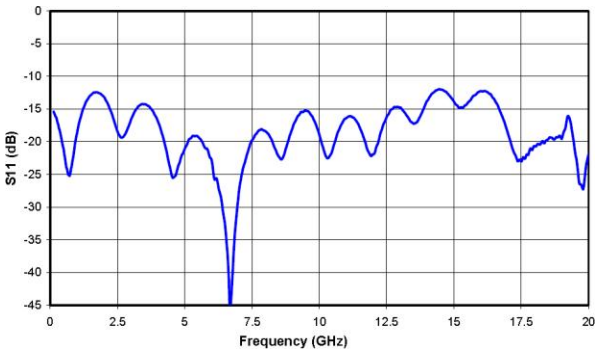
Limit Conditions

Parameter	Symbol	Unit	Min	Typ	Max
Input optical power@850nm	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
bias voltage	Vbias	V	-20		20
Operating temperature	Top	℃	-10		60
Storage temperature	Tst	℃	-40		85
Humidity	RH	%	5		90

S21 Curve &S11 Curve

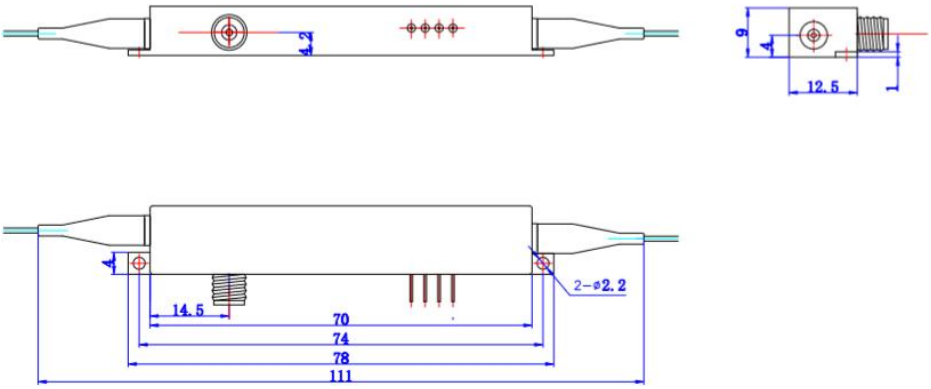


S21 Curve



S11 Curve

Mechanical Diagram



ordering information:

ROF	AM	10	XX	XX	XX
	Modulator type： AM---intensity modulator	Operating wavelength： 10---1064nm	Operating bandwidth： 2.5G---2.5GHz 10G---10GHz 20G---20GHz	Input output optical fiber： PS---PM/SMF PM--- PM/PMF	Connector： FA---FC/APC FP---FC/PC SP---user specified

please contact me if you have special requirement

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R-AM 1064nm Intensity Modulator

R-AM series 1064nm lithium niobate electro-optic intensity modulator adopts advanced proton exchange technology. It has the characteristics of low insertion loss, high modulation bandwidth, low half-wave voltage and so on， and mainly used in space optical communication system, cesium atomic time reference, pulse generator, quantum optics and other fields.

Features

- Low insertion loss
- High damage power
- Low half-wave voltage
- High stability

Applications

- Fiber optic sensing system
- Pulsed light modulation system
- Pulse light generator
- Analog transmission link

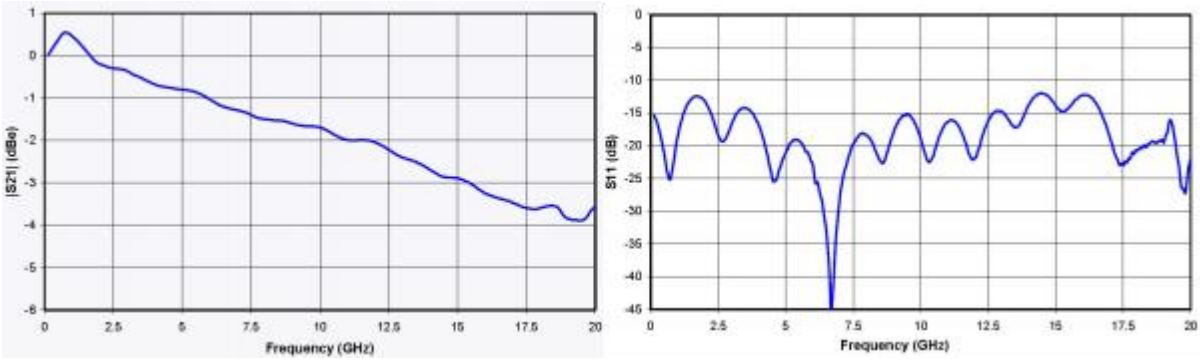
Performance parameter

Parameter		Symbol	Min	Typ	Max	Unit
Optical parameters						
Operating wavelength		入	980	1060	1150	nm
Insertion loss		IL	-	4	5	dB
Optical return loss		ORL	-40	-45	-	dB
Switch extinction ratio@DC		ER@DC	20	23	-	dB
Dynamic extinction ratio		DER	12	13		dB
Optical fiber	Input port		PM fiber 980 nm			
	output port		PM fiber 980 nm			
Optical fiber interface			FC/PC 、FC/APC Or user to specify			
Electrical parameters						
Operating bandwidth (-3dB)		S_{21}	0.01~2.5 、0.01~ 10			GHz
Bandwidth fluctuation		ΔS_{21}		0.5	1	dB
Half-wave	RF	Vπ@50KHz		3	3.5	V
	Bias	Vπ@Bias		3.5	4	V
Electrical return loss		S_{11}		-12	-10	dB
Input impedance	RF	Z_{RF}	50			Ω
	Bias	Z_{BIAS}	1M			Ω
Electrical interface			SMA			
Bias pin definition			1,2-Bias 3,4- N/C			

Limit Conditions

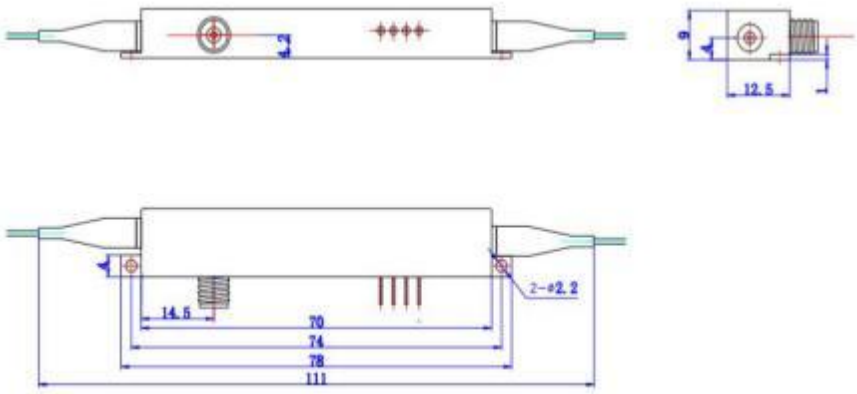
Parameter	Symbol	Unit	Min	Typ	Max
Input optical power	$P_{in,Max}$	dBm			20
Input RF power		dBm			28
Bias voltage	Vbias	V	-20		20
Operating temperature	Top	ºC	0		70
Storage temperature	Tst	ºC	-40		85
Humidity	RH	%	5		90

Characteristic curve



S_{11}&S_{21}Curve

Mechanical Diagram(mm)



Order information

R	AM	10	XX	XX	XX
	Modulator type: AM---Intensity modulator	Working wavelength: 10--- 1064nm	Operating bandwidth: 2.5G---2.5GHz 10G--- 10GHz	Optical fiber: PP---PM/PM	Facet: FA---FC/APC FP---FC/PC SP---User's customization

*please contact our sales ifyou have special requirements.