



5W-70W 声光调 Q 脉冲光纤激光器

使用手册

版权说明

“ ”

引 语

MFP Q

‘ ’

MFP Q



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第一章 特性说明

MFP

Q

$1064 \pm 5 \text{ nm}$




MFP

Q

Class 4

第二章 安全信息

1 -

Class IV

5W/10W/20W/30W/50W/70W

1064nm

2-

1

2

LaserVision USA Kentek Corporation Rochwell Laser Industries

3-

1

2

3

1

2

3

5

6



7

8

6

- 1
- 2
- 3
- 4
- 5
- 6

7

4-

Laser Institute of America(LIA)
13501 Ingenuity Drive, Suite 128
Orlando,Florida 32826
Phone:407 380 1553,Fax: 407 380 5588
Toll Free:1 800 34 LASER

American National Standards Institute
ANSI Z136.1, American National Standard for the Safe Use of Lasers
(Available through LIA)

International Electro-technical Commission
IEC 60825-1, Edition 1.2

Center for Devices and Radiological Health
21 CFR 1040.10 - Performance Standards for Light-Emitting Products

US Department of Labor - OSHA
Publication 8-1.7 - Guidelines for Laser Safety and Hazard Assessment.
Laser Safety Equipment

Laurin Publishing
Laser safety equipment and Buyer' s Guides

第三章 产品描述

1 -

MFP

Q

Q

MOFA

1064nm

25Pin

1

2

3

4

25

1

2

2-

MFP-5W	5W	Q
MFP-10W	10W	Q
MFP-20W/H/X/L	20W	Q
MFP-30W/H/X/L	30W	Q
MFP-50W/H	50W	Q
MFP-70W	70W	Q

3-

第四章 详细规格

1 -

1						
2						
3	M ²	MFP-20X/20L/ 20W/30X/30L	1.2	1.4	1.5	
		MFP-20H/30W/30H /50W/50H/70W	1.3	1.6	1.8	
4		Pout=Pnom	1055	1064	1070	nm
5	(3dB)	Pout=Pnom		5	10	nm
6	(Pnom)	MFP-5W	4.5	5	5.5	W
		MFP-10W	9.5	10	10.5	
		MFP-20X	18	18.5	19	
		MFP-20L	18.5		19	
		MFP-20W/H	20	20.5	21	
		MFP-30X	24	24.5	25	
		MFP-30L	29	29.5	30	
		MFP-30W/H	30	31	32	
		MFP-50W/H	49	50	51	
		MFP-70W	69	70	71	
7			10		100	%
8		MFP-5W		0.5		mJ
		MFP-10W		0.45		
		MFP- 20W/20L/20X/30L/30X	0.65	0.68	0.75	
		MFP-20H/50W/30W		1		
		MFP-30H/70W/50H	1.4	1.5		

9	(FWHM)	MFP-5W	80	100	120	ns
		MFP-10W				
		MFP-20W/H/X/L				
		MFP-30W/H/X/L				
		MFP-50W/H				
		MFP-70W	100	110	130	
10		MFP-5W	10		30	KHz
		MFP-10W	20		60	
		MFP-20L/20X	27		60	
		MFP-20H/30H	20		80	
		MFP-30L	40		60	
		MFP-30W/30X/20W/20L	30		60	
		MFP-50W	50		80	
		MFP-50H	33		80	
		MFP-70W	50		170	
11		Pout=Pnom			3	%
12	1/e2	MFP-5W		7		mm
		MFP-10W		7		
		20L/20X/20W/20H		7		
		30L/30X/30W/30H		7		
		50X/50W/50H/70W		7		
13			90			%
14		MFP-5W/10W/20X/ 20L/20W/20H		1.9		M
		MFP-30X/30L/30W/30H		1.9		
		MFP-50W/50H/70W		3		
15		Pout=Pnom,10% -90%		110	140	us
16		Pout=Pnom,90% -10%		110	150	us
*						

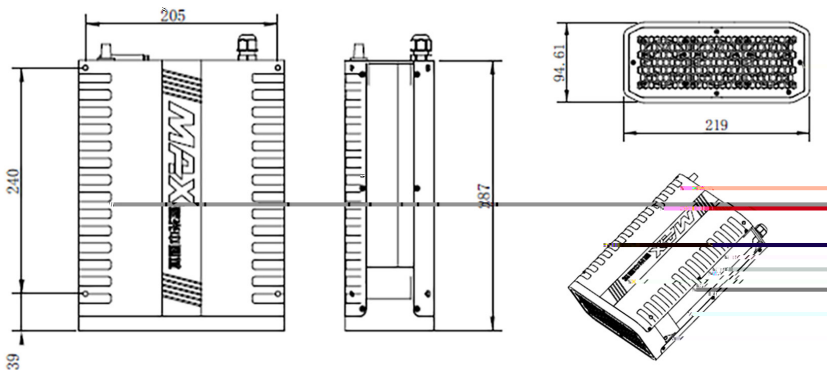
2-

1			10		42	
2			-10		60	
3						
4					1	min
					10	min
5			10		95	%
6		Q	345.5× 266.2× 120			mm
		Q	287× 219× 94.61			mm
7		MFP-5W		7.5		kg
		MFP-10W		10		
		MFP-20W/H/X/L		10		
		MFP-30W/H/X/L		12		
		MFP-5W		7		
		MFP-10W		7		
		MFP-20W/H/X/L		7		
		MFP-30W/X/L		7		
		MFP-50W/H		12		
		MFP-70W		12		
8			23	24	25	VDC
9		MFP-5W		90		W
		MFP-10W		120		
		MFP-20W/H/X/L		150		
		MFP-30W/H/X/L		240		
		MFP-50W/H/X/L		360		
		MFP-70W		450		

3-

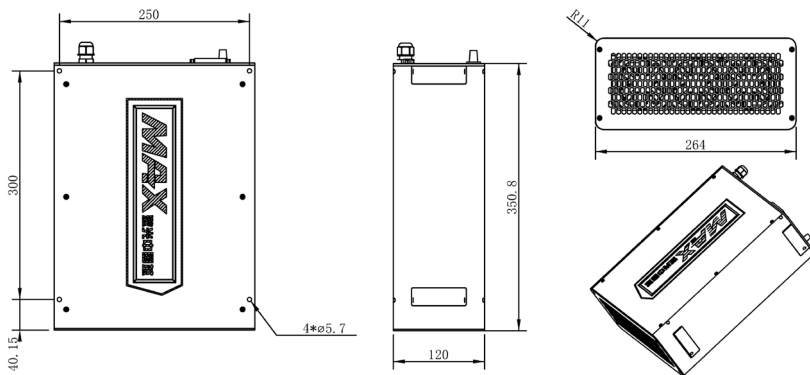
Q

mm

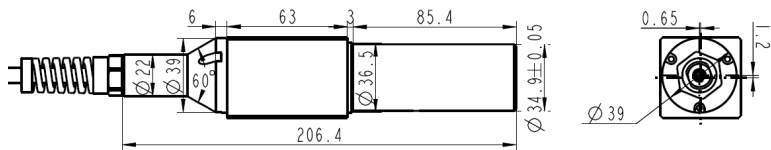


Q-5W-70W

mm



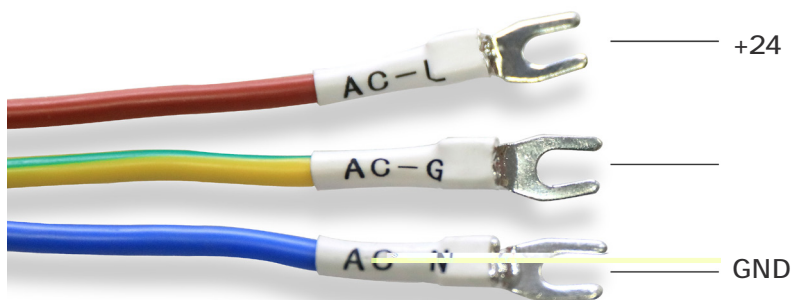
mm



第五章 使用指南

	1
	1

1-

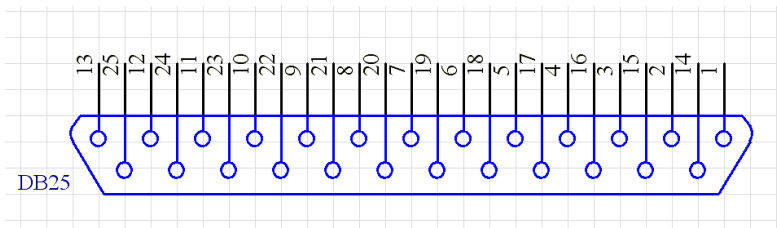


2-DB25

1

TTL
Pin TTL

Pin#	Pin#
1-8 D0-D7	16 0-FF 10 0-255 LSB(D0) Pin1, MSB(D7) Pin8 - 00h(0): - FFh(255): - 00h.
9	Latch
10-15	
16 21	Pin16 Pin21
	L L
	L H
	H H MO
18	MO - H MO - L MO
19	Booster / - H Booster - L Booster
20	PRR 0.1-0.9
22	/ - H - L
23	OK(- L STOP(



2 DB-25

1 DB25 5.2.1

2 Pin1~8 8bit Pin1 LSB Pin8 MSB Pin
 0-255 0-100%

	1	2	3	4	5
1	0	0	0	0	0
2	0	0	0	0	0
3	0	0	0	0	0
4	0	0	0	0	0
5	0	0	0	1	1
6	0	0	1	1	1
7	0	1	1	1	1
8	1	1	1	1	1
	50%	75%	87.5%	93.75%	100%
	35%	65%	85%	92%	100%

3 Pin16 Pin21 2Pin

16	21	
L	L	
L	H	
H	H	MO

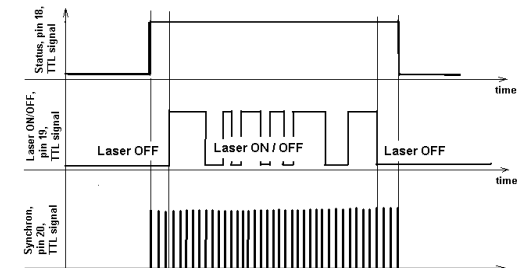
4 Pin18 MO MO Booster BS

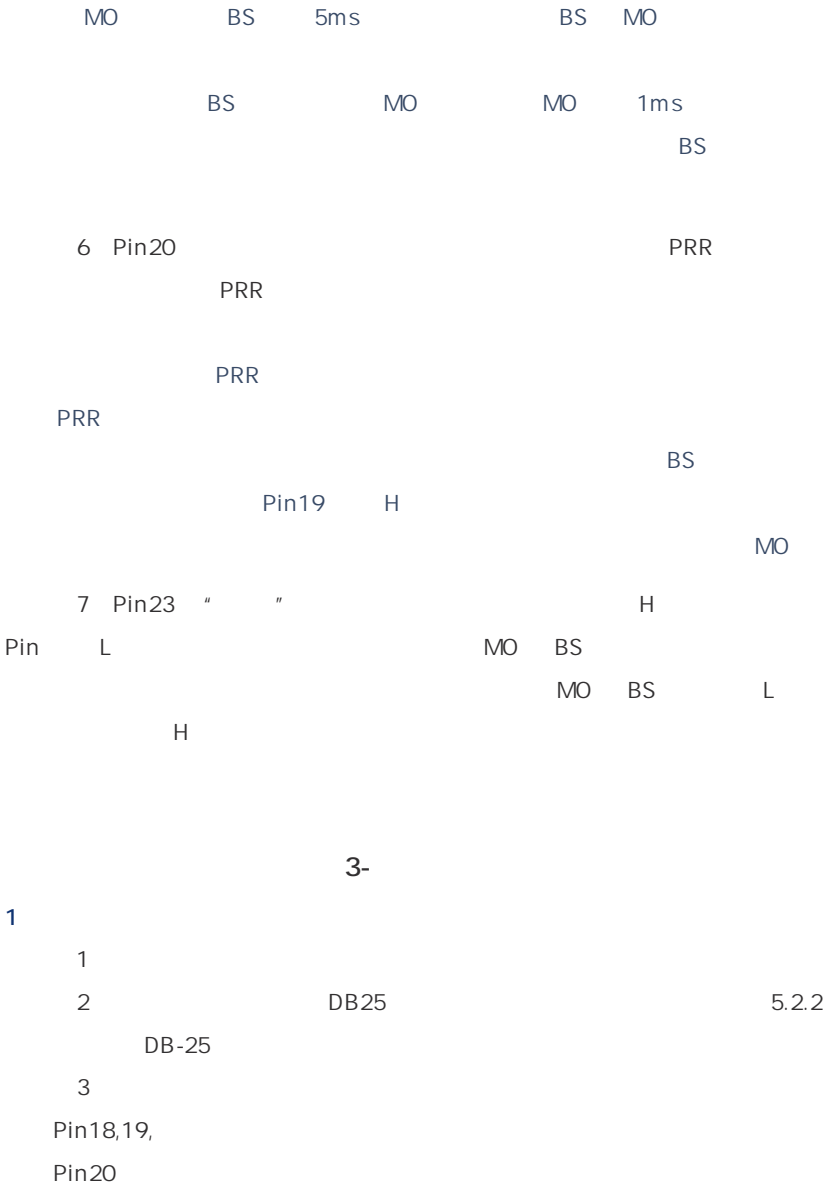
5ms MO

5 Pin19 Booster BS H

BS L BS Pin19 H

L





4	24VDC				+24V		
5		24VDC					
		24VDC					
6		Pin23	H				
7	Pin1~8						
8	Pin18	H	MO				
9	5ms						
10	Pin19				H/L		
	/				4		
			/		250us		
500us		2kHz					
11							
20ms		MO			MO		MO
12			BS	MO	Pin18	Pin19	L
13	24VDC						
2							
1				Pin20	PRR		PRR
					PRR		
	20kHz			50us			
	PRR						
2				Pin1~8			
3	Pin18	H	Pin19	L			20mW

4
Pin21

+45

+45
Pin16

4-

MFP

Q

SAMight				
	/			
1		50	100	Us
2		50	100	Us
3		50	100	Us
4		-60	-150	Us
5		60	150	Us

EzCad				
	/			
1		50	150	Us
2		50	150	Us
3		-50	-200	Us
4		20	150	Us
5		60	150	Us

	/			
1		50	100	Us
2		50	100	Us
3		20	100	Us
4		-50	-200	Us
5		50	150	Us

第六章 常见故障处理

NO			
1			1. +24V GND
			2.
			3. PIN18 PIN19
			4. DB25
			5. PIN23
			6.
			7.
			8.
		DB25	9. PIN22 "0" ("1")
			10. DB25
		11.	
		12.	

NO			
2			1.
			2.
			3.
			4. 2
			5.
			6.
			7.
			8.
3			1.
			2.
			3. 25
			4. 45-47
			5. 45-47

NO				
7			1.	
			2.	
			3.	53
			4.	19
5.				
8			1. 15-20mW	
9		DB25	1. DB25	
			2.	
10			1.	
			2.	53
		PIN16 PIN21	3. PIN16 PIN21 PIN21	PIN16

第七章 服务与维修

1-

2-

400-900-9588

第八章 保修声明

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