



100W-300W 声光调 Q 光纤激光器

使用手册

版权说明

“ ”

引 语

MFP Q

MFP Q

公司简介

2004

<http://www.maxphotonics.com>



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第一章 特性说明

MFP

Q

1060nm




MFP

Q

Class 4

第二章 安全信息

1 -

1060nm

Class IV

100W

2-

1

2

LaserVision USA Kentek Corporation Rochwell Laser Industries

3-

1

2

3

1

2

3

5

6

7

8

4

MFP Q 220/110VAC

	L
	N

AC 220/110VAC

5

1

2

5cm



4

3

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	MOPA	Q
			1060nm
10KW			25Pin
1			
2			
3			
4	25		
1			
2			

2-

MFP-100W	100W	Q
MFP-200W	200W	Q
MFP-300W	300W	Q

3-

第四章 详细规格

1 -

1						
2						
3	M ²	Pout=Pnom		2.0		
4		Pout=Pnom	1060	1064	1070	nm
5	(3dB)	Pout=Pnom	5	8	10	nm
6	(Pnom)	25 MFP-100W	95	100	105	W
		25 MFP-200W	190	200	210	W
		25 MFP-300W	290	300	310	W
7			5		100	%
8			1.5	6.7	8	mJ
9	(FWHM)	100w@ 65KHz	150	170	190	ns
		200w@ 135KHz	180	200	220	ns
		300w@ 200KHz	210	240	270	ns
10		MFP-100W	20		200	KHz
		MFP-200W	30		200	
		MFP-300W	45		200	
11		100W	65	65@ 1.5mj	200	KHz
		100W	15	15@ 6.7mj	200	
		200W	135	135@ 1.5mj	200	
		200W	30	30@ 6.7mj	200	
		300W	45	37@ 6.7mj	200	
12		Pout=Pnom			5	%

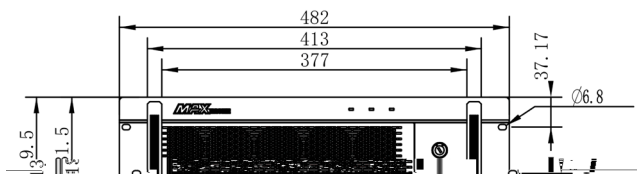
13		1/e2	5		9	mm
14			90			%
15				5		M
16		Pout=Pnom 0% -90%			200	us
17		Pout=Pnom 100% -10%			150	us
*						

2-

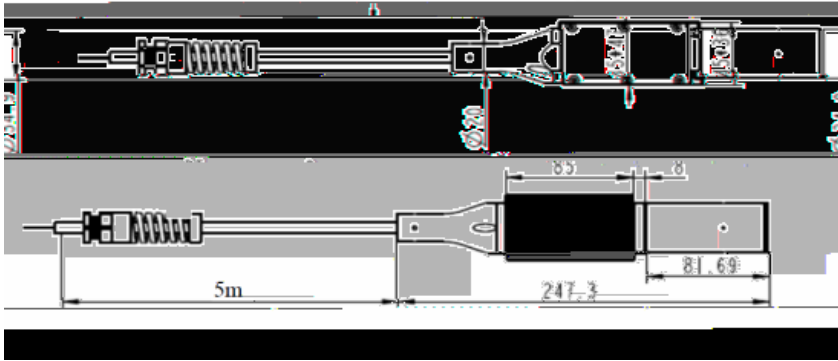
1			10		35	
2			-10		60	
3						
4					1	min
					10	min
5			10		95	%
6		MFP-100W	540.4*482*131.5			mm
		MFP-200W				mm
		MFP-300W				mm
7		MFP-100W		21		kg
		MFP-200W		21		kg
		MFP-300W		21		kg
8		220				VAC
9		MFP-100W		600		W
		MFP-200W		900		W
		MFP-300W		1300		W

3-

mm



mm



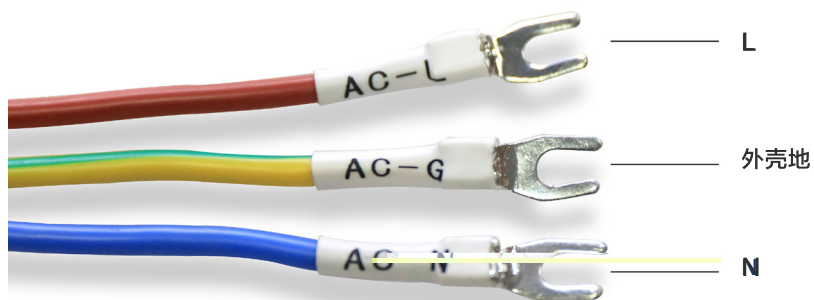
100W
500W

10kW
20kW

第五章 使用指南

	1
	1

1-





- 1 100W 4A
- 2 200W 6A
- 3 300W 8A

2-DB25

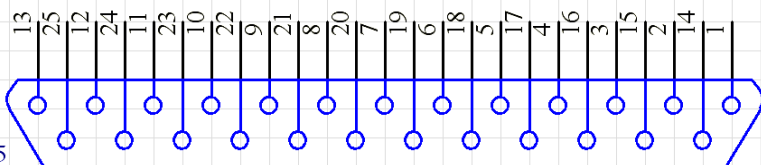
1

TTL Pin TTL

Pin#	
1-8 DO-D7	16 0-FF 10 0-255 LSB(D0) Pin1, MSB(D7) Pin8 - 00h(0); - FFh(255); -
9	Latch
10-15	

16 21	Pin16	Pin21	
	L	L	
	L	H	
	H	H	MO
18	- H - L	MO MO MO	
19	- H - L	Booster Booster Booster	/
20		PRR	0.1-0.9
22	- H - L		/
23	- H - L	OK(STOP(

DB25



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

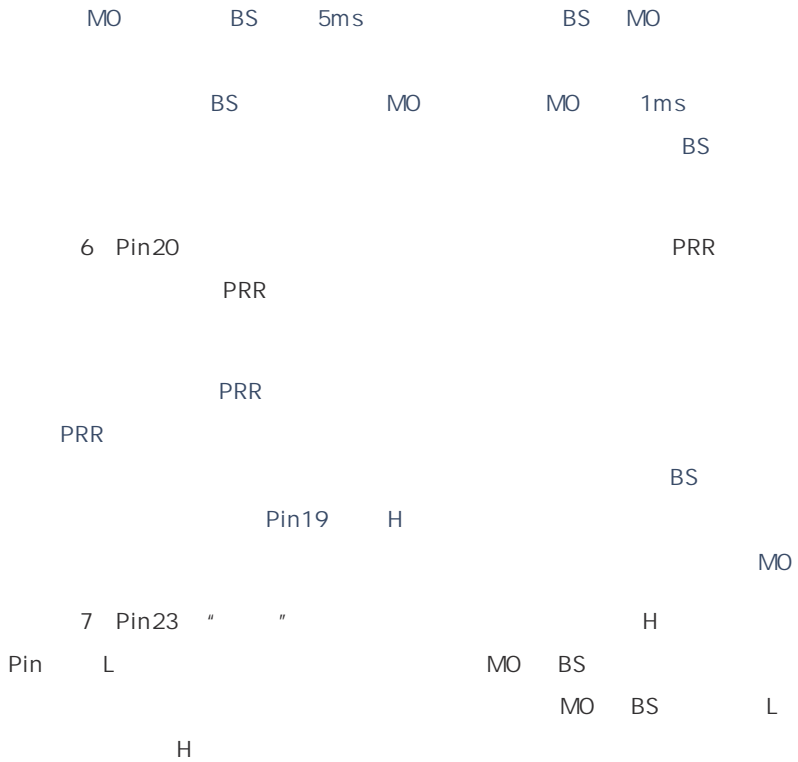
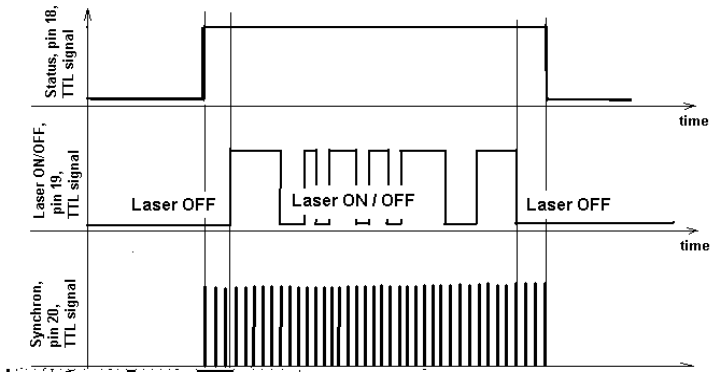
16	21	
L	L	
L	H	
H	H	MO

4 Pin18 MO MO Booster BS

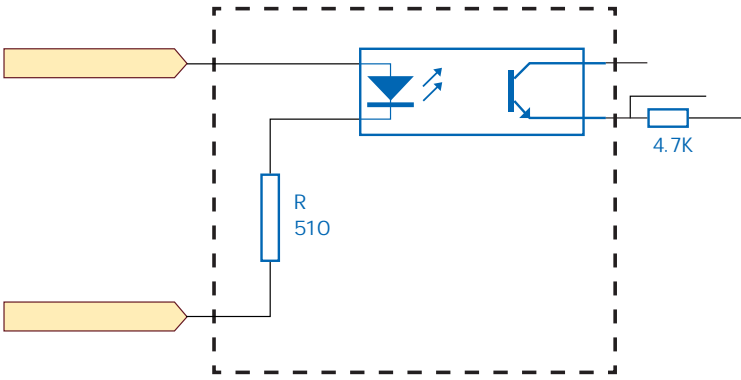
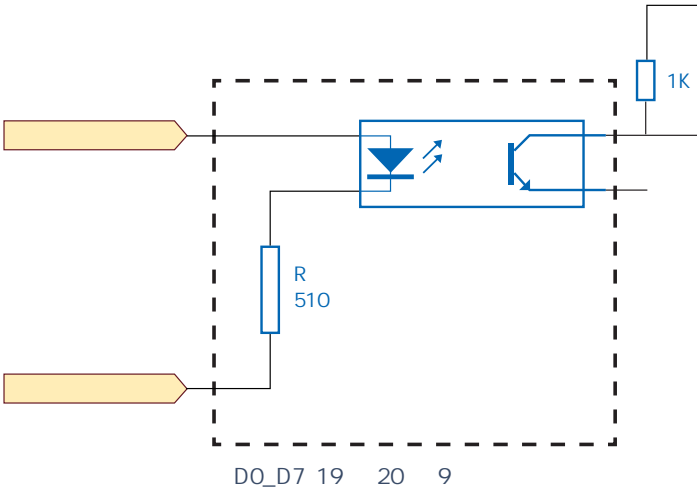
5ms MO

5 Pin19 Booster BS H

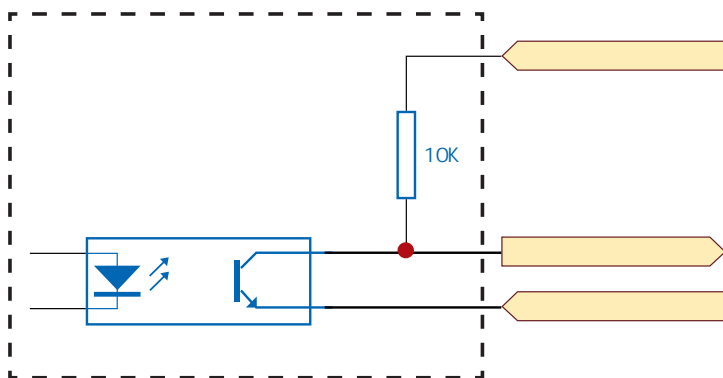
BS L BS Pin19 H
 L



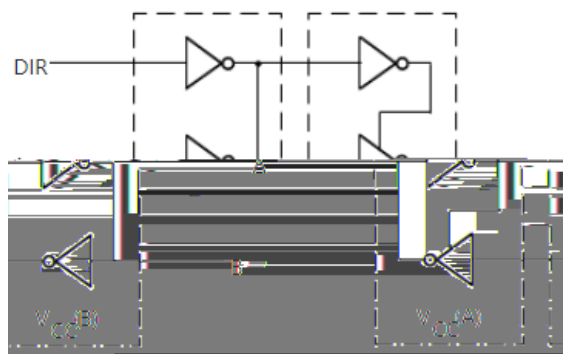
8



7mA



9



输入			输出	
A	B	DIR	A	B
*	L	L	L	*
*	H	L	H	*
L	*	H	*	L
H	*	H	*	H

3-

1

1

2			DB25				5.2.2
	DB-25						
3							
	Pin18,19,						
	Pin20						
4		Pin23	H				
5	Pin1~8						
6	Pin18	H	MO				
7	5ms						
8	Pin19				H/L		
	/				4		
				/		250us	
500us		2kHz					
9							20ms
	MO		MO		MO		
10			BS	MO	Pin18	Pin19	L
11							
2							
1				Pin20	PRR	PRR	
					PRR		
	20kHz			50us			
	PRR						
2				Pin1~8			
3	Pin18	H	Pin19	L		20mW	
4			+45				Pin16
Pin21				+45			

第六章 常见故障处理

1-

1

2

Pin23

3

4

5 DB25

6 Pin18 Pin19

7

5.2 DB25

8

(Pin22 ' 0'),

(' 1'

) ,

2-

1

2

3

4

5

6

2

第七章 服务与维修

1-

2-

第八章 保修声明

1 -