1. Optical characteristics

N	Characteristics	Parameter value	Unit
1	Central wavelength	1060-1080	nm
2	Spectral width @3dB	<15	nm
3	Maximum pulse energy	0.8	mJ
4	Output Power	30	W
5	Power Turning Range	0-100	%
6	Frequency Turning Range	1-3000	kHz
7	Laser switching ON/OFF time	<20	μs
8	Pulse Duration	2-500	ns
9	Output Power Instability	<5	%
10	Beam quality M^2	<1.35	/
11	Polarization	Random	/
12	Resist high reaction	Yes	/
13	Indicator red light	0.3-2	mW
14	Collimated Beam diameter (4σ)	7±0.5	mm

15	Delivery cable length	2	m

2. Electrical characteristics

N	Characteristics	Parameter value	Unit
16	Power supply voltage	24	VDC
17	Working current	<6	A
18	Power consumption	<144	W
19	Recommended power	≥150	W

3. Environmental requirements

N	Characteristics	Parameter value	Unit
20	Operating temperature	0 - 40	℃
21	Storage temperature	-10 - 60	℃
22	Cooling Method	Air cooling	/

4. Structural characteristics

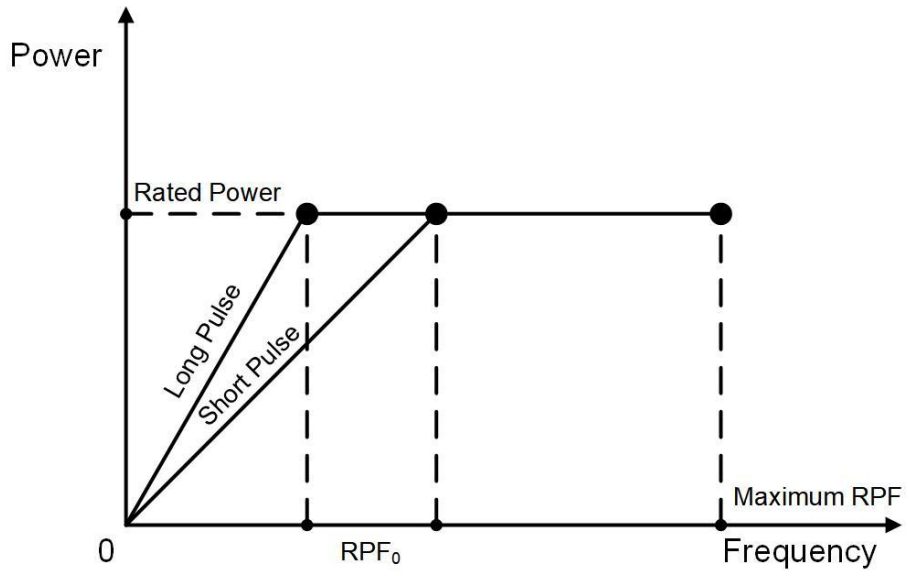
N	Characteristics	Parameter value	Unit

23	Laser dimension	308.5*220*83.4 269.5*210.5*69.5	mm^3
24	Isolator dimension	195*35*35（Round） 160*42*42（Square）	mm^3
25	Net weight	<8	kg

5. The pulse width corresponds to the power reduction frequency point and the maximum single pulse energy

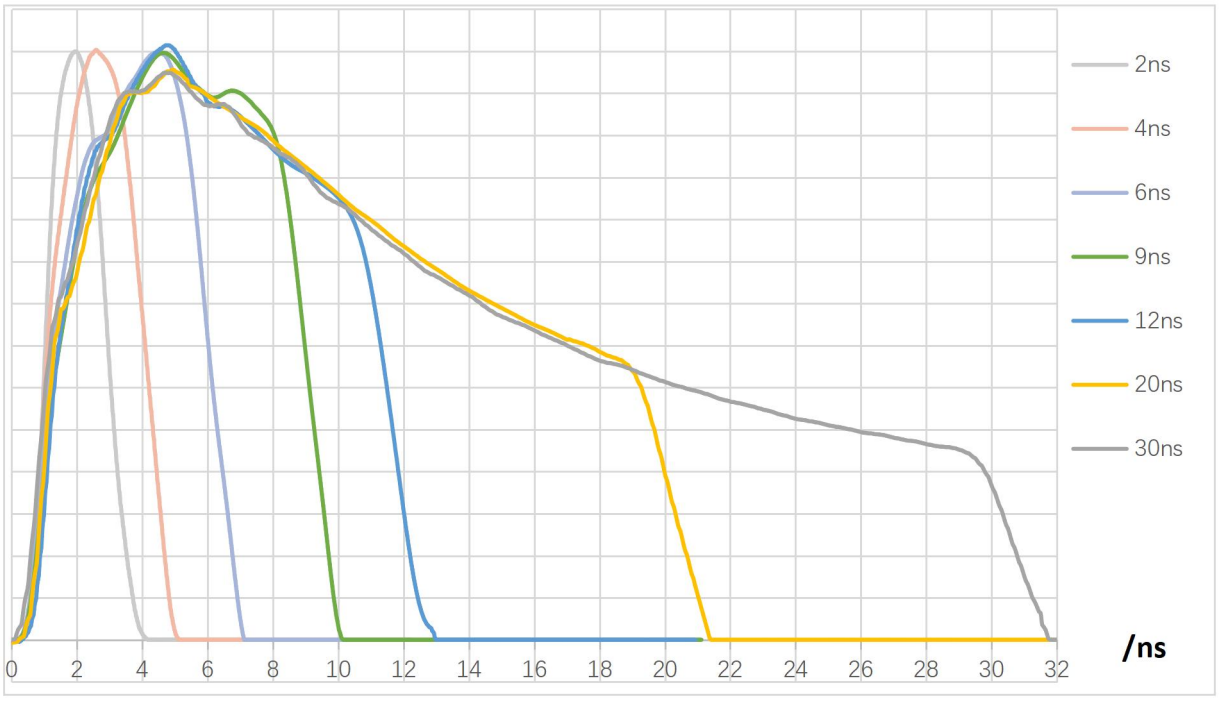
N	Pulse width (ns)	Power reduction frequency (kHz)	Upper frequency limit (kHz)	Max single pulse energy (mJ)
1	2	1280	3000	0.02
2	4	750	3000	0.04
3	6	450	3000	0.07
4	9	360	3000	0.08
5	12	240	3000	0.13
6	20	165	3000	0.18
7	30	130	3000	0.23
8	45	110	2000	0.27
9	60	95	2000	0.32
10	80	90	2000	0.33

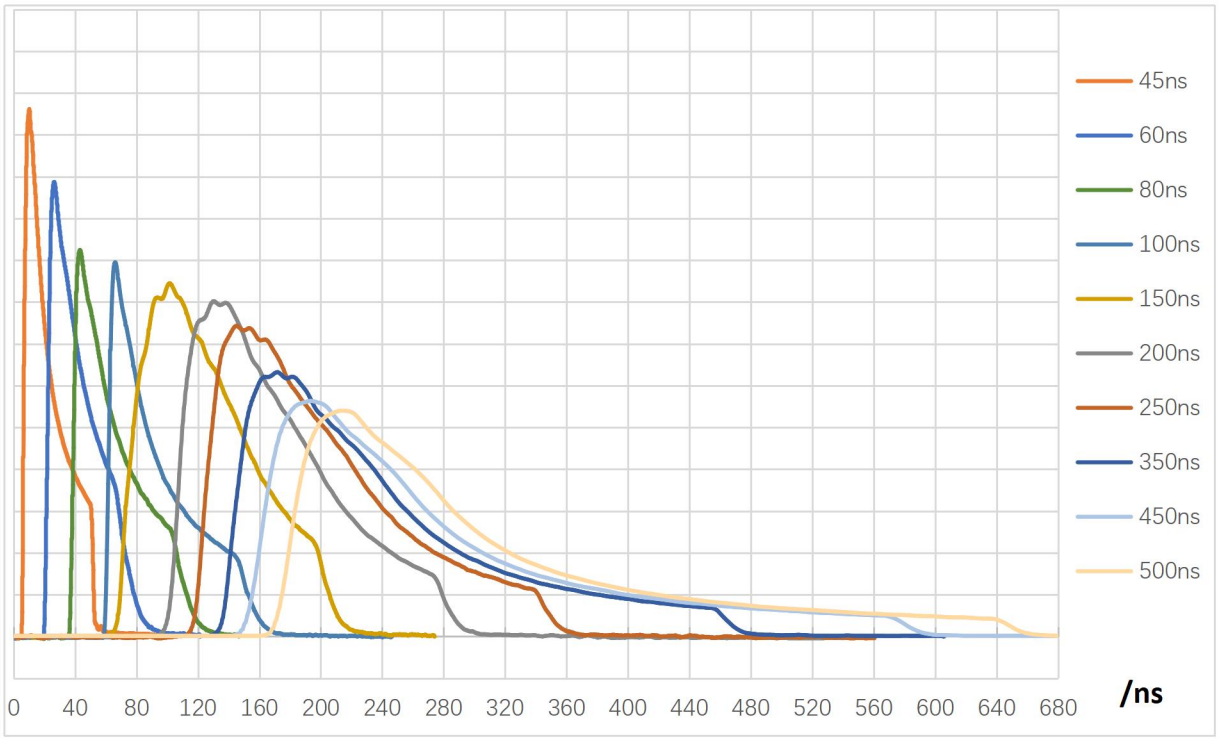
11	100	80	1000	0.38
12	150	45	1000	0.67
13	200	37	1000	0.80
14	250	37	1000	0.80
15	350	37	600	0.80
16	450	37	500	0.80
17	500	37	500	0.80



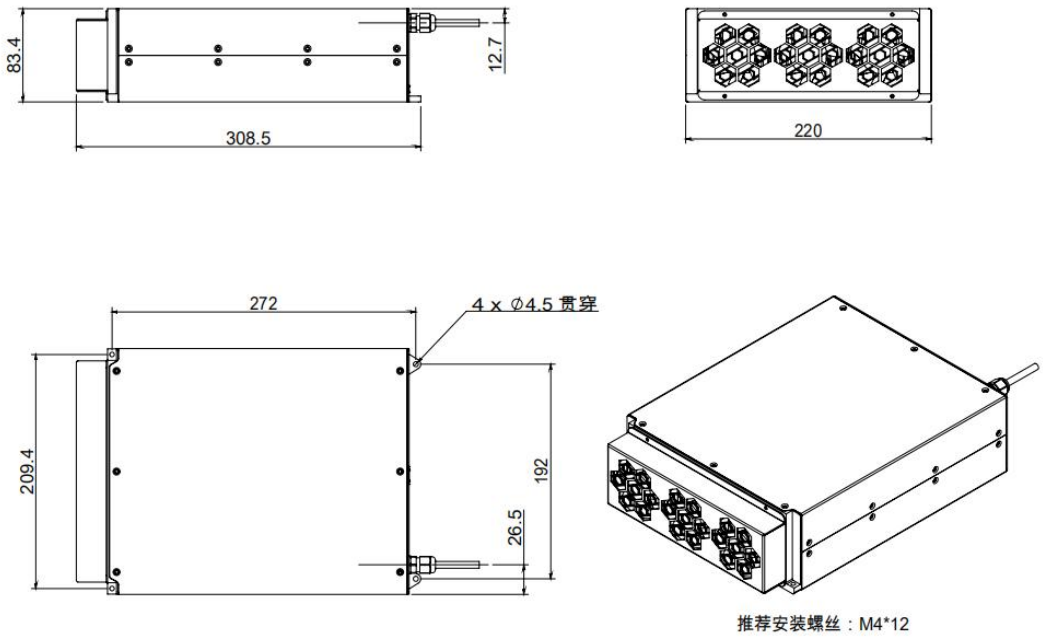
The definition of threshold frequency in the pulsed fiber laser

6. Pulse width waveform

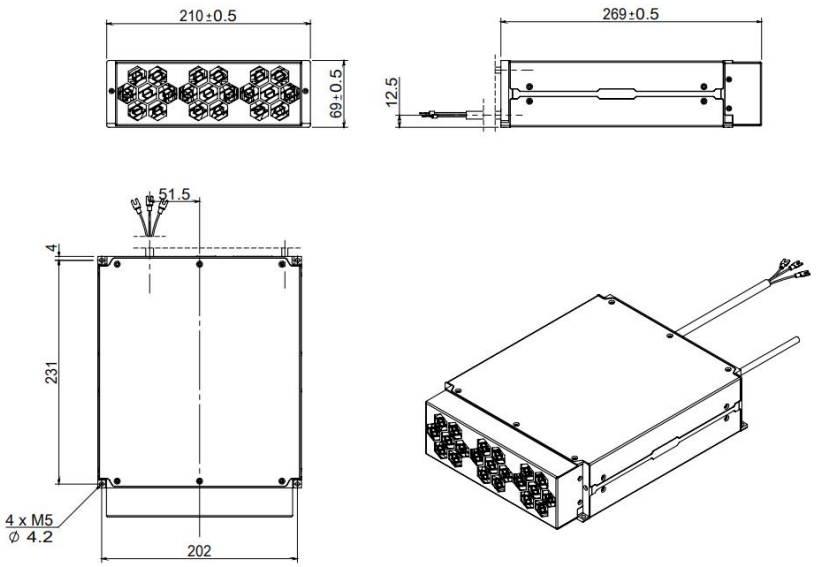



45ns
60ns
80ns
100ns
150ns
200ns
250ns
350ns
450ns
500ns
0
40
80
120
160
200
240
280
320
360
400
440
480
520
560
600
640
680
/ns

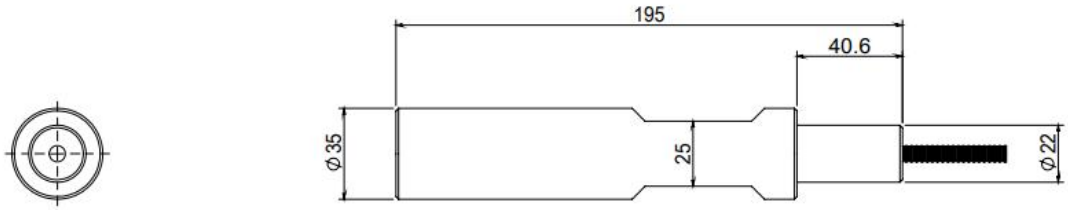
7. Dimension



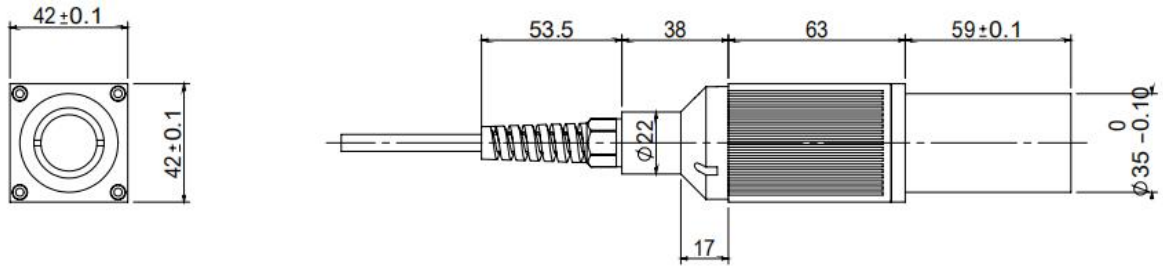
Laser dimension one



Laser dimension two



Collimating Isolator Dimensions (Round)



Collimating Isolator Dimensions (Square)