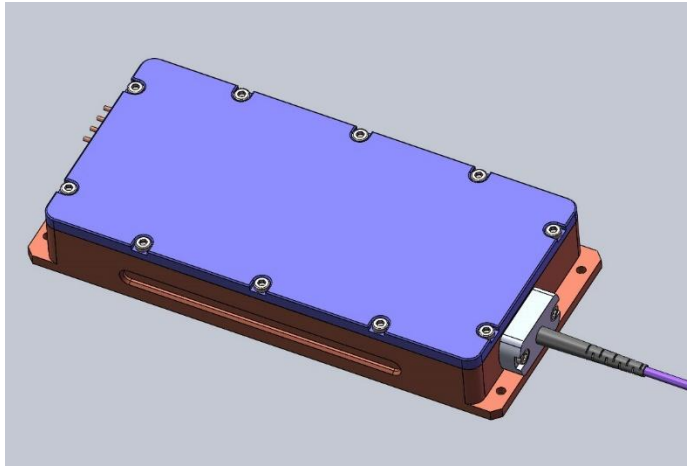


RPKR007G008B008MKFN-N1N-40022



Features :

- ◆ 455nm+525nm+638nm wavelength
- ◆ 23W output power
- ◆ 400µm fiber core diameter
- ◆ 0.22 NA
- ◆ Air cooled

Applications :

- ◆ Illuminating
- ◆ Laser display

Specifications (25°C)		Symbol	Unit	RPKR007G008B008MKFN-N1N-40022		
				Minimum	Typical	Maximum
O/E Data ⁽¹⁾	Total Output Power	P _O	W	-	23	-
	Laser Diodes			R	G	B
	Central Wavelength	λ	nm	638	525	455
	Individual Output Power	P _O	W	7.0	8.0	8.0
	Operating Current	I _{op}	A	1.6	2.3	3.5
	Threshold Current	I _{th}	A	0.4	0.3	0.35
	Operating Voltage	V _{op}	V	19.2	38.1	13.1
Fiber Data	Core Diameter	D _{core}	µm	-	400	-
	Numeric Aperture	NA	-	-	0.22	-
	Fiber Length	L _f	m	-	1	-
	Fiber Loose Tubing Diameter	-	mm	3mm metal jacket		
	Minimum Bending Radius	-	mm	132	-	-
	Fiber Termination	-	-	SMA905		
Others	ESD	V _{esd}	V	-	-	500
	Storage Temperature ⁽²⁾	T _{st}	°C	-20	-	70
	Lead Soldering Temp	T _{is}	°C	-	-	260
	Lead Soldering Time	t	sec	-	-	10
	Operating Case Temperature ⁽³⁾	T _{op}	°C	15	-	35
	Relative Humidity	RH	%	15	-	75

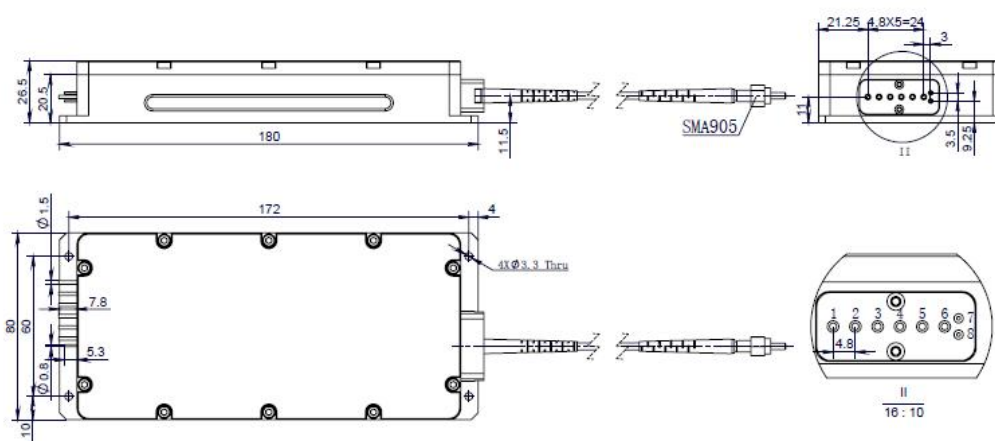
(1) Data measured under operation output at 23W@25°C.

(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 15°C~35°C, but performance may vary.

RPKR007G008B008MKFN-N1N-40022

Package Dimensions (mm)



Pin	Function
1	Red (+)
2	Red (-)
3	Blue (+)
4	Blue (-)
5	Green (+)
6	Green (-)
7	NTC Thermistor
8	NTC Thermistor

OPERATING NOTES

- ◆ Avoid eye and skin exposure to direct radiation during operation.
- ◆ ESD precautions must be taken during storage, transportation and operation.
- ◆ Short-circuit is required between pins during storage and transportation.
- ◆ Please connect pins to wires by solder instead of using socket when operation current is higher than 6A. Soldering point should be close to the middle of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- ◆ Make sure the fiber output end is properly cleaned before operation of laser. Follow safety protocols to avoid injury when handling and cutting the fiber.
- ◆ Use constant current power supply to avoid surge current during operation.
- ◆ Laser diode must be used according to the specifications.
- ◆ Laser diode must work with good cooling.
- ◆ Operation temperature ranges from 15°C to 35°C .
- ◆ Storage temperature ranges from -20°C to +70°C .



Declaration: information and specifications contained herein are deemed to be reliable and accurate. we reserve the right to change, alter or modify the design and specifications of these products at any time without notice.21-1