

High Power Tap Isolator (TGG Based, 780nm to 1064nm)

Features

- Low Insertion Loss
- High Return Loss
- High Extinction Ratio
- High Isolation

Applications

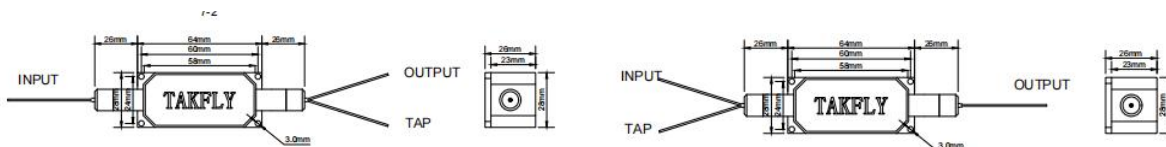
- Compact Amplifier
- Compact Fiber Optic System
- Fiber Laser
- Fiber Optic Sensor

Specifications

Parameter	Unit	Value
Center Wavelength	nm	1064, 1030, 980, 915, 850, 808, 780
Operating Wavelength Range	nm	±5
Max. Excess Loss	dB	1.2
Signal Tap Ratio Tolerance	%	1±0.2%, 5±1%, 50±2%
Min. Isolation at 23℃	dB	25
Min. Extinction Ratio at 23℃ (PM Fiber Type)	dB	20
Max. Polarization Dependent Loss at 23℃ (SMF Fiber Type)	dB	0.15
Min. Return Loss	dB	50
Max. Optical Power (CW)	W	20 or Specify
Max. Peak Power for ns Pulse	kW	10
Max. Tensile Load	N	5
Operating Temperature	℃	+10~+50
Storage Temperature	℃	0~+60

With connector, the handling power will be only 1W, IL is 0.3dB higher, RL is 5dB lower, and ER is 2dB lower.
The default connector key is aligned to slow axis.

More Details



Options for Working Axis

Option 1, 2x1

Input to Output: Fast axis blocked,
Input to Tap: Both axis working,

Option 2, 2x1

Input to Output: Both axis working,
Input to Tap: Both axis working,

Option 3, 2x1

Input to Output: Both axis working,
Input to Tap: PM to SM, Polarization Insensitive

Option 4, 1x2

Input to Output: Fast axis blocked,
Input to Tap: Fast axis blocked,

Option 5, 1x2

Input to Output: Fast axis blocked,
Input to Tap: PM to SM, Polarization Sensitive

Ordering Information

HPMTIS-1111-2344-555-666-78-9-AAA-BBCC (PM Fiber Type)

HPITIS-1111-2344-555-666-78-9-AAA-BBCC (SM Fiber Type)

1111 - Wavelength:	1064=1064nm, 1030=1030nm, 980=980nm,.....
2 - Working Axis:	1=Option 1, 2=Option 2, 3=Option 3, 4=Option 4, 5=Option 5
3 - Stage:	S=Single-core
44 - Tap Ratio:	01=1%, 02=2%,, 50=50%
555 - Fiber Type (In & Out):	003=PM980, 004=Hi1060, 014=PM1060L, SSS=Specify
666 - Fiber Type (Tap)	003=PM980, 004=Hi1060, 014=PM1060L, SSS=Specify
7 - Package Dimension:	0=64x28x26mm
8 - Pigtail Type:	0=bare fiber, 1=900μm loose tube
9 - Fiber Length:	0.75=0.75m, 1.0=1m, S=Specify
AAA - Connector Type:	0=FC/UPC, 1=FC/APC, 2=SC/UPC, 3=SC/APC, N=None, S=Specify
BB - Average Power:	00=500mW, 01=1W, 05=5W, 10=10W, SS=Specify
CC - Peak Power:	00=Continuous Wave, 10=10kW, 20=20kW

For example: Product model [HPMTIS-1064-1S01-003-003-00-0.8-NNN-1010](#) on behalf of:

High Power PM Tap Isolator, 1064nm, Option 1 (2x1, Input to Output: Fast axis blocked, Input to Tap: Both axis working),

Single-core stage, 1/99, PM980 fiber for all ports, 64x28x26mm, bare fiber, 0.8m, no connector, 10W, 10KW.