High Power PM Fiber Optic Coupler/Splitter 2x2

(10W, 20W)

DATASHEET

BUY NOW

The HPPC Series fiber optic coupler is fully tested and burn-in at the specified high power for quality control. 2x2 can be used as 1x2 in which the reflected optical power is safely guided out through the extra fiber. An angle termination is required to avoid back reflection. The coupler is based on Agiltron's fused biconical taper technology and compact packaging structure. It features good uniformity, low excess loss and very low polarization sensitivity. The device is ideal for splitting or combining light with exceptional performance over a wide wavelength range.

Couplers are highly efficient in splitting light with little loss, about 0.2dB per joint, but incur significant losses when combining lights; for example, a 50/50 coupler produces a 50% loss to each beam when combined. For beam-combining applications, search Combiner.

Features

- Wavelength Independent
- Low Insertion Loss
- Low PDL
- Highly Stable & Reliable
- Ultra Low Cost

Applications

- Optical communications
- FTTX
- Local Access Network (LAN)
- Fiberoptic Instrumentation

Specifications

Parameter		Min	Typical		Max	Unit
Splitting Ratio			1/99 to 50/50			%
Bandwidth			± 20			nm
			Premium P	**Grade A**		
Excess Loss [1]			0.07	0.1		dB
Insertion Loss [1]	50/50		3.4/3.4	3.6/3.6		dB
	40/60		4.4/2.5	4.8/2.8		dB
	30/70		5.6/1.8	6.1/2.0		dB
	20/80		7.5/1.2	8.0/1.3		dB
	10/90		10.8/0.6	12.0/0.8		dB
	5/95		14.6/0.4	18.4/0.5		dB
	4/96		16.0/0.3	19.0/0.4		dB
	3/97		17.5/0.3	19.5/0.4		dB
	2/98		19.0/0.2	20.0/0.3		dB
	1/99		21.5/0.2	22.0/0.3		dB
	0.5/99.5		23.0/0.2	24.0/0.3		dB
Polarization Extinction Ratio [2]			22	18		dB
Uniformity			0.6	1.0		dB
Optical Power Handling			10, 20			W
Operating Temperature		-40			85	°C
Storage Temperature		-50			85	°C

Notes:
[1]. Without connector. Each connector adds 0.3dB and 0.5dB for short wavelength
[2]. Without connector. Each connector adds 2dB

Note: The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link]:

Rev 05/24/24

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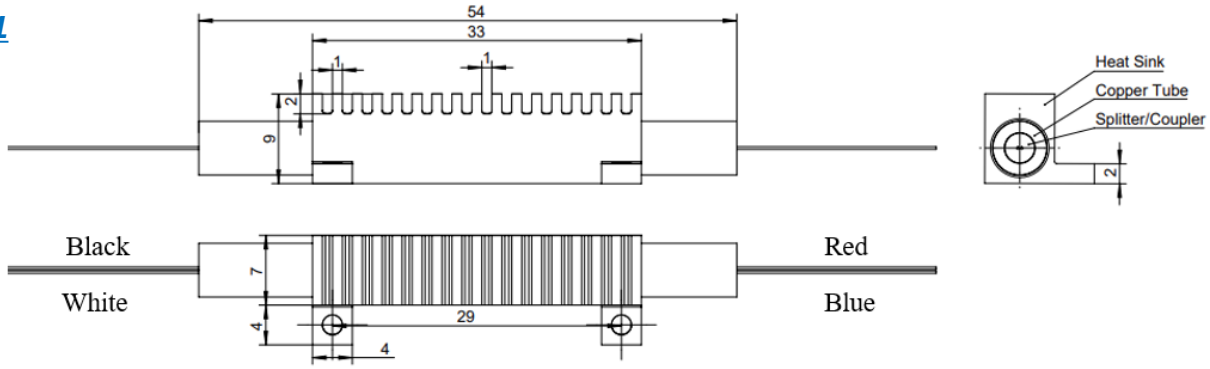
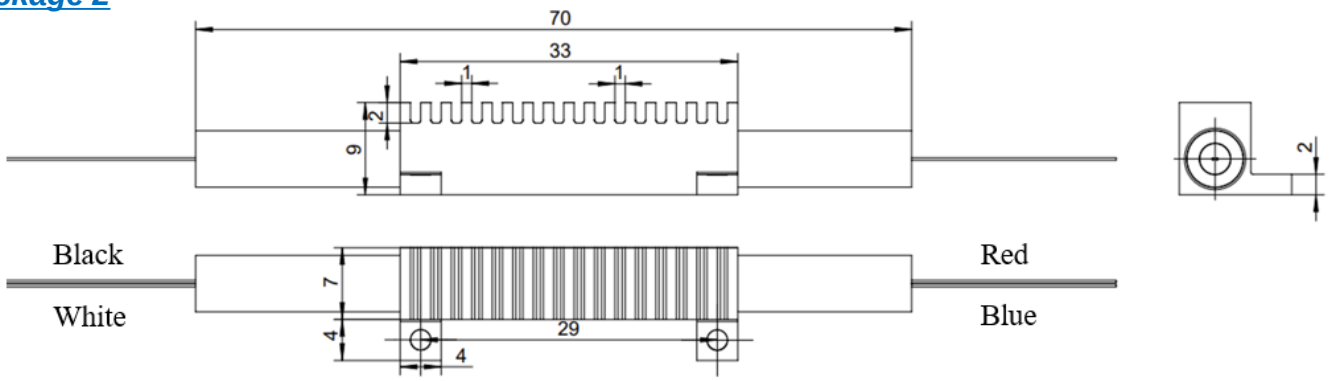
Mechanical Dimensions (mm)

Package 1



Package 2



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information

	☐	☐	☐	☐	☐	☐	☐	☐	☐
Prefix	**Power**	**Wavelength**	**Grade**	**Package**	**Splitting Ratio**	**Fiber Type**	**Fiber Cover**	**Fiber Length**	**Connector***
HPPC-	10 = 1 20 = 2 30 = 3 40 = 4 50 = 5	1550 = 1 1060 = 6 Special = 0	P Grade = P A Grade = A	standard = 1 Special = 0	01/99 = 1 02/98 = 2 05/95 = 3 10/90 = 4 20/80 = 5 30/70 = 6 40/60 = 7 50/50 = 8 0.5/99.5 = 9 3/97 = A 4/96 = B Special = 0	PM 1550 = 2 Special = 0	250µm fiber = 1 900µm tube = 2 2mm cable = 3 3mm cable = 4 Special = 0	0.5m = 1 0.75m = 2 1.0m = 3 1.5m = 4 2.0m = 5 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 Special = 0

Connector Note: These high power beam expanded connectors are made specially
They must be used in pair with Agiltron type connectors. They are not compatible with regular connectors.

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