



# hybrid components

## Tap Coupler/Isolator Hybrid Combination

### Description

Renka® SmartCONNECT™ Tap Coupler/Isolator Hybrid is a combination of a filter based coupler with an isolator, integrated into a compact package. These components offer low insertion and polarization dependent loss, which make them an ideal integrated solution for EDFA applications.

Renka Hybrid components are designed and tested to Bellcore GR-1209/GR-1221 performance and reliability industry standards.



### Applications

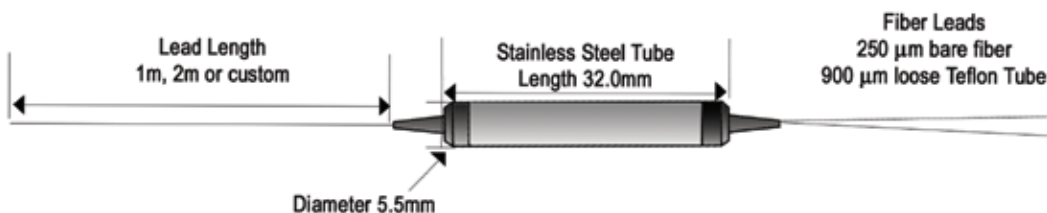
- EDFA
- WDM Systems
- CATV

### Benefits

- Wide Wavelength and Temperature Range
- Compact Packaging
- High Isolation
- Highly Stable and Reliable

### Package Dimensions

#### Light/Medium Duty



## 1550 TAP Coupler/Isolator Hybrid Combination Specifications

	UNIT	SINGLE STAGE	DUAL STAGE
Operating Wavelength	nm	C Band: 1528 - 1564	
	nm	L Band: 1570 - 1605	
Isolation (Min.) over wavelength range C or L (0 to +70°C, all SOP)	nm	23	36
Insertion Loss, Mean	dB	0.6 to 0.9	0.7 to 1.1
Nominal Tap Ratio		2% (16.2 - 18.0dB)	
		5% (12.2 - 14.0dB)	
Return Loss (Min.)	dB	55	55
PDL (Max.)	dB	0.1	
PMD (Max.)	ps	0.25 / 0.05 (compensated)	0.1
Directivity (Min.)	dB	55	
Maximum Power Handling	mW	500	
Operating Temperature	°C	0 to +70	
Storage Temperature	°C	-40 to +85	

### Ordering Information

TAPH□□-□-□□-□□-□□

#### Type

SS: Single Stage  
DS: Dual Stage

#### Wavelength

1: 980/1550  
4: 1480/1550

#### Tap Ratio:

02: 2/98  
05: 5/95  
10: 10/90  
20: 20/80  
30: 30/70  
40: 40/60  
50: 50/50

#### Package Type

L: Light Duty  
(250 μm bare fiber)  
M: Medium Duty  
(900 μm loose Teflon tube)

#### Lead Length

1: 1 meter  
2: 2 meters  
C: Custom

#### Connector Type

00: None  
SU: SU/UPC  
SA: SC/APC  
FU: FC/UPC  
FA: FC/APC  
TU: ST/UPC