

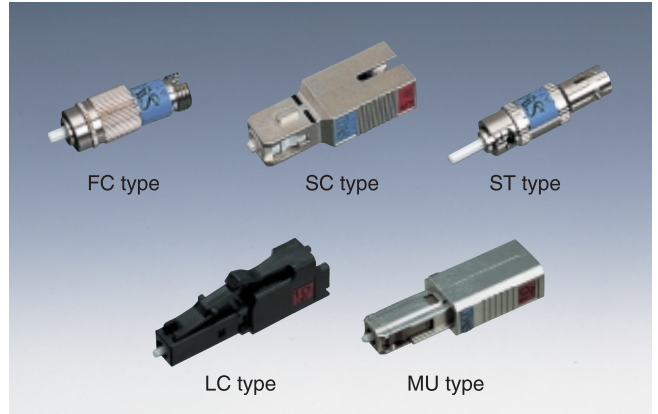
Fixed Optical Attenuator

This product using for metal-ion doped optical fiber is a sort of passive optical device which adjust optical power to desired levels.

Features

The following features can be obtained, using by metal-ion doped optical fibers. (Soaking method)

- Simple structure
- Superior durability
- Low polarization dependence
- Low wavelength dependence
- High return loss (55dB/65dB)
- The telecordia GR-1209-CORE and GR-910, 1221-CORE conformed



Ordering Information

K AT -

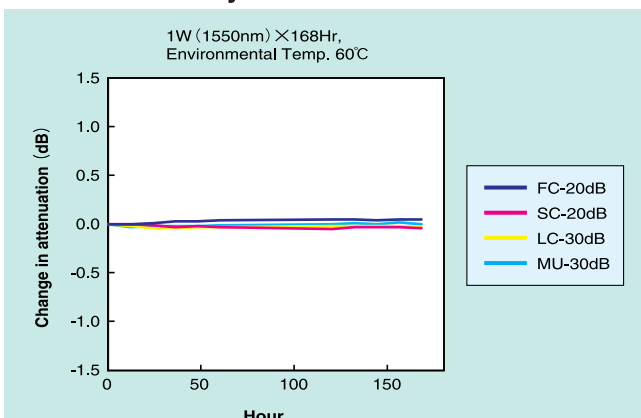
- SPC : SPC polish
- UP : UPC polish
- AP : Angled PC polish
- S : 1310nm Zero-dispersion SM fiber ($\lambda = 1310\text{nm}$)
- L : 1310nm Zero-dispersion SM fiber ($\lambda = 1550\text{nm}$)
- D : Dispersion shifted fiber (DSM) ($\lambda = 1550\text{nm}$)
- Attenuation : numeral means its attenuation (dB)
- Connector type (FC : FC type, SC : SC type, ST : ST type, LC : LC type, MU : MU type)

The above's are available on C/L/C+L Band upon request.
Please contact your SWCC sales office if another type is required.
(C-Band ; 1530 ~ 1565 nm, L-Band ; 1565 ~ 1625 nm)

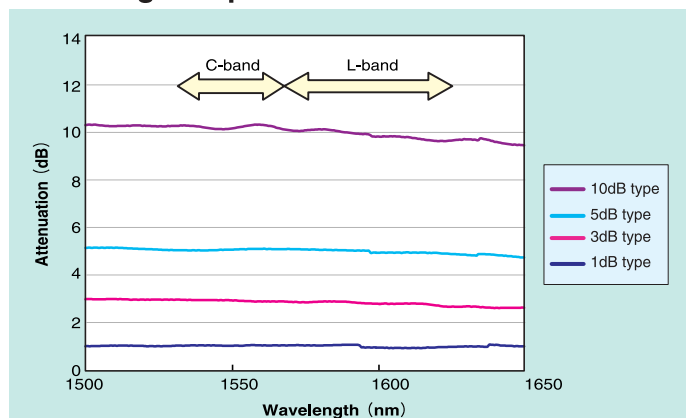
Comparison

Items	SHOWA's product	Other's product
Structure		
Principle	Absorption by metal-ion doped fiber	Absorption by metal coated mirror
Polishing	2 surfaces to be polished	4 surfaces to be polished
Material	Metal-ion doped optical fiber with one ferrule	Optical fiber - metal coated mirror with 2 fibers
Durability	300 ~ 1000mW	Less than 50mW

Power durability



Wavelength dependence



Specifications

Type	Type No.	Attenuation (dB)	Durability [mW(dBm)]	Opt. fiber	Wavelength (nm)	Return loss (dB)				
						SPC	UPC	APC		
FC type	KFCAT01SL	1	1000 (30)	SM	1310 & 1550	≧ 40	≧ 50 or ≧ 55	≧ 60 or ≧ 65		
	KFCAT02SL	2								
	KFCAT03SL	3								
	KFCAT04SL	4								
	KFCAT05SL	5								
	KFCAT06SL	6	750 (28.8)							
	KFCAT07SL	7								
	KFCAT08SL	8								
	KFCAT09SL	9								
	KFCAT10SL	10								
	KFCAT15SL	15	500 (27)						DSM	1550
	KFCAT20SL	20								
	KFCAT25D	25								
KFCAT30D	30									
SC type	KSCAT01SL	1	1000 (30)	SM	1310 & 1550	≧ 40	≧ 50 or ≧ 55	≧ 60 or ≧ 65		
	KSCAT02SL	2								
	KSCAT03SL	3								
	KSCAT04SL	4								
	KSCAT05SL	5								
	KSCAT06SL	6	750 (28.8)							
	KSCAT07SL	7								
	KSCAT08SL	8								
	KSCAT09SL	9								
	KSCAT10SL	10								
	KSCAT15SL	15	500 (27)						DSM	1550
	KSCAT20SL	20								
	KSCAT25D	25								
KSCAT30D	30									
ST type	KSTAT01SL	1	1000 (30)	SM	1310 & 1550	≧ 40	≧ 50 or ≧ 55	—		
	KSTAT02SL	2								
	KSTAT03SL	3								
	KSTAT04SL	4								
	KSTAT05SL	5								
	KSTAT06SL	6	750 (28.8)							
	KSTAT07SL	7								
	KSTAT08SL	8								
	KSTAT09SL	9								
	KSTAT10SL	10								
	KSTAT15SL	15	500 (27)						DSM	1550
	KSTAT20SL	20								
	KSTAT25D	25								
KSTAT30D	30									
LC type	KLCAT01SL	1	1000 (30)	SM	1310 & 1550	≧ 40	≧ 50 or ≧ 55	—		
	KLCAT03SL	3								
	KLCAT05SL	5	500(27)							
	KLCAT10SL	10								
	KLCAT15SL	15	300 (24.8)							
	KLCAT20SL	20								
MU type	KMUAT01SL	1	1000 (30)	SM	1310 & 1550	≧ 40	≧ 50 or ≧ 55	—		
	KMUAT02SL	2								
	KMUAT03SL	3								
	KMUAT04SL	4	500 (27)							
	KMUAT05SL	5								
	KMUAT06SL	6	300 (24.8)							
	KMUAT07SL	7								
	KMUAT08SL	8								
	KMUAT09SL	9								
	KMUAT10SL	10								
	KMUAT15SL	15								
KMUAT20SL	20									