

Free Space Isolator

Features

Low Insertion Loss
High Isolation
Environmentally Stable

Applications

CATV
EDFA
Tunable Laser



Performance Specifications

Parameters		Single Stage		Dual stage		Single Stage		Dual stage		Unit
Operating Wavelength		1310				1550				nm
Grade		P	A	P	A	P	A	P	A	
Peak Isolation(23°C)		45	42	60	55	45	42	60	55	dB
Isolation($\lambda_c, 23^\circ\text{C}$)		≥ 40	≥ 38	≥ 50	≥ 45	≥ 42	≥ 40	≥ 50	≥ 45	dB
Isolation($\lambda_c \pm 20\text{nm}, -5 \sim 70^\circ\text{C}$)		≥ 20	≥ 18	≥ 36	≥ 30	≥ 21	≥ 19	≥ 38	≥ 32	dB
Isolation($\lambda_c \pm 20\text{nm}, 23^\circ\text{C}$)		≥ 28	≥ 26	≥ 45	≥ 42	≥ 30	≥ 28	≥ 45	≥ 42	dB
Insertion Loss(Typical) (23°C)		0.15	0.2	0.25	0.3	0.15	0.2	0.25	0.3	dB
Insertion Loss(23°C)		≤ 0.2	≤ 0.3	≤ 0.4	≤ 0.5	≤ 0.2	≤ 0.3	≤ 0.4	≤ 0.5	dB
Aperture Size		0.6/0.9				0.6/0.9				mm
Power Handling		1000				1000				mW
Operating Temperature		-5~70				-5~70				°C
Storage Temperature		-40~85				-40~85				°C
Package	Free space isolator	$\Phi 2.5 \times 2.0$		$\Phi 3.0 \times 2.5$		$\Phi 2.5 \times 2.0$		$\Phi 3.0 \times 2.5$		mm
		$\Phi 3.0 \times 2.0$		$\Phi 2.5 \times 2.5$		$\Phi 3.0 \times 2.0$		$\Phi 2.5 \times 2.5$		
Dimension*	Pigtail free space isolator	$\Phi 2.5 \times 14$		$\Phi 2.5 \times 14$		$\Phi 2.5 \times 14$		$\Phi 2.5 \times 14$		mm
		$\Phi 2.5 \times 10$		$\Phi 2.5 \times 10$		$\Phi 2.5 \times 10$		$\Phi 2.5 \times 10$		

* Other dimensions are also available upon request

Mechanical Dimensions(mm)

