



***Specification***  
**of**  
**FREE SPACE ISOLATOR (FSI)**  
**FSI-xxxxxxxxxUM Series**



**Universal Microelectronics**  
**Photonics Division**  
**Catalog 2005~ 2006**



**FREE SPACE ISOLATOR (FSI)**

**Features**

- Low PDL
- Low Insertion Loss
- Excellent Uniformity
- High Directivity
- Highly Stable and Reliable

**Applications**

- Telecommunications
- Local Area Network (LAN)
- Passive Optical Network (PON)
- Cable TV
- Fiber sensors

**Product Characteristics Performance**

Parameters	Single Stage		Dual Stage	
	Premium	A Grade	Premium	A Grade
Central Wavelength(nm)	1310 or 1550			
Bandwidth(nm)	± 20			
Min. Peak Isolation(dB)(at 23°C)	42	40	58	55
Min. Isolation in Band(dB)(at 23°C)	28	26	45	42
Min. Isolation in Band(dB)( 0°C ~ 70°C )	20	18	36	30
Max. Insertion Loss(dB) in Band( 0°C ~ 70°C )	0.25	0.3	0.4	0.5
Clear Aperture(Min.)	0.9mm			
Power Handling(Max.)	1000mW			
Operation Temperature	0°C ~ 70°C			
Package Dimension(mm)	2.5φ x2.1		2.5φ x 3.5	

- Special dimension upon request



Ordering Information

# FSI-X-XXXX-X-UM

