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***Specification***

of

**SINGLE MODE THREE WINDOWS WIDEBAND TREE COUPLER(TWT)**  
**TWT-xxxxxxxxxxUM Series**



**Universal Microelectronics**  
**Photonics Division**  
**Catalog 2008~ 2009**




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## SINGLE MODE THREE WINDOWS WIDEBAND TREE COUPLER(TWT)

### 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	P x 8 P= 1or 2		P x 16 P= 1or 2		P x 32 P= 1or 2	
	Premium	A Grade	Premium	A Grade	Premium	A Grade
Wavelength(nm)	1310 ± 20, 1490 ± 10 and 1550 ± 20nm					
Coupling Ration(%)	12.5		6.25		3.125	
Insertion Loss(dB)(Max.)	11.7	12.3	15.6	16.4	19.0	20.0
PDL(dB)(Max.)	0.3	0.4	0.4	0.5	0.5	0.6
Min. Return Loss(dB)	45					
Min. Directivity(dB)	50					
Power Handling(Max.)	300mW					
Operating Temperature	- 40°C ~ 85°C					

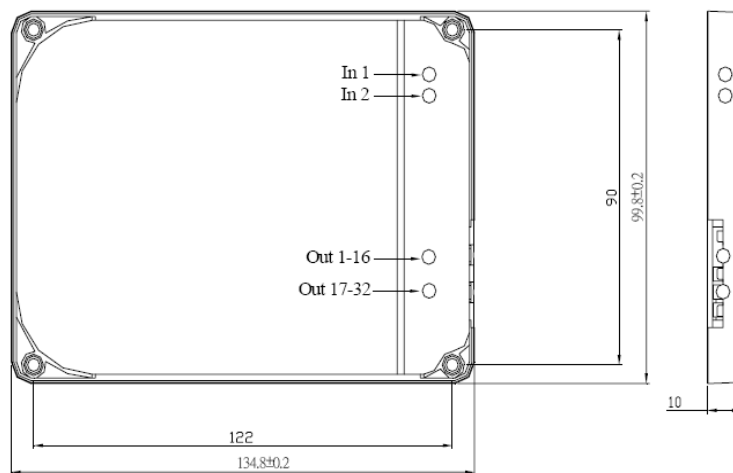
- Special dimension upon request



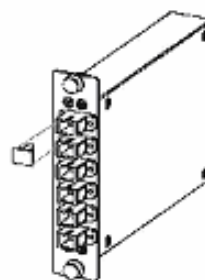
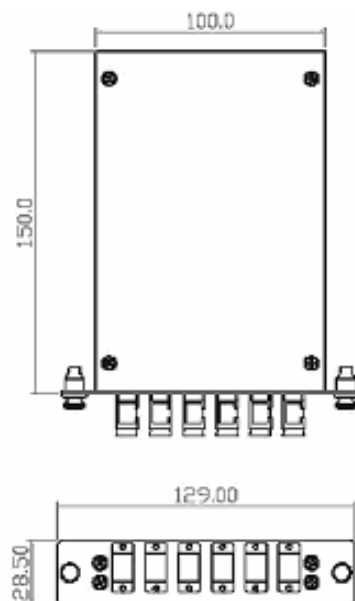
### Mechanical outline

Package type	Housing type	Dimension	Pigtail style
Type R	Ruggedized plastic housing	135mm (L) x 100mm (W) x 10mm (H) (Px8/Px16/Px32 P=1 or 2)	900 $\mu$ m loose buffered fiber
Type G	LGX compatible module	See below	Output port is adapter

- The dimension of type G package will depend on output port number, below LGX compatible housing is just for reference.
- We also provide LGX compatible chassis, please see our chassis specification.



Type R Ruggedized plastic housing with 0.9mm loose buffered fiber  
L135mm(L) x 100mm(W) x 10mm(H)



Type G: LGX compatible  
Housing with a dapter



## Ordering Information

# TWT-X-X-EQ-X-X-X-X-X-UM

