



Shenzhen OPTICO Communication Co., Ltd

45° Curved FA-MT Specification

Characteristics

- » Low IL, Good Channel Uniformity;
- » Good Focusing Performance;
- » Integrated Polishing;
- » High Coupling Efficiency;
- » High Reliability & Stability.

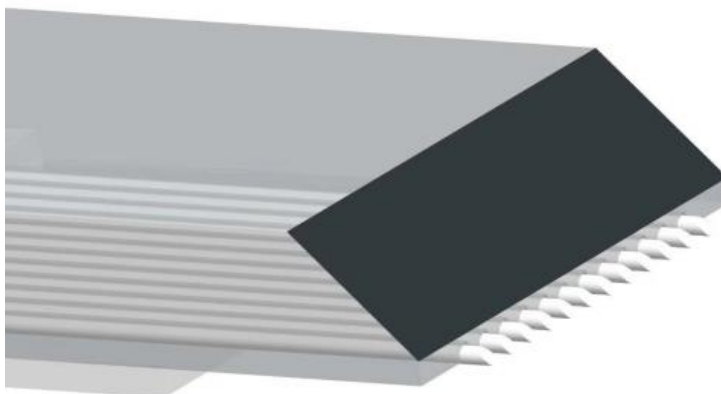


Application

- » Paralleled Optical Transmission Devices;
- » VCSEL Array Laser Optical Coupling;
- » PD Detector Array Receiving/ Coupling.

Introduce

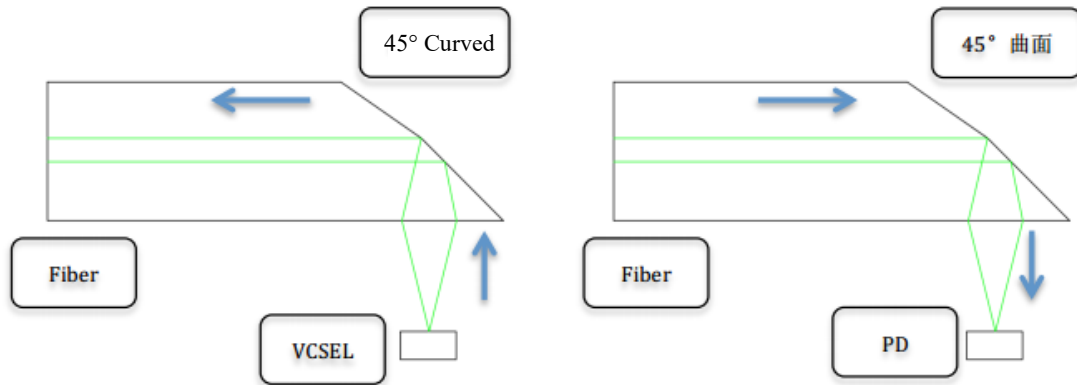
45°FA-MT is applied to parallel optical transceivers, is made up of V groove, fiber and cover lid. OPTICO is able to customize 42~45° extended bare fiber/ polishing angle, to get 45° mirror refection emitted vertical optical signals directly go into fiber. FA-MT is featured with compact size, high reliability, easy to use and can be applied in high temperature, is widely used in QSFP, data center and multi-channel equipment.



1. Working Principle



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2. Performance

Parameter		Unit	Value			NOTE
			MIN	TYP	MAX	
Fiber Radius		mm	0.5		0.7	
Fiber Diameter		mm	-	-	-	
Lid	L	mm	2.5			Customized Option
	W		2			
	T		0.2			
V-Groove	L	mm	5			
	W		2			
	T		0.5			
Bare Fiber Length		mm	0.1		0.3	
Core Pitch		um		250		
Bare Fiber Degree		°	41.5		45.5	
Total Length		mm	17			
IL of FA Side		dB			0.8	
IL of MT Side		dB			0.5	
Uniformity		dB			1	
Fiber Type		NA	-	-	-	OM1/OM2/OM3/OM4/ G657A/G657B/G652D
Connector Type		NA	-	-	-	MT
Operating Temperature		°C	-40		+85	

3. Structure

