Optical Phase Adjust Element With Casing

(350–2500 nm, up to 10W optical power)

DATASHEET

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The Optical Phase Adjust Element (OPAE) is designed to precisely control optical phase delay in a wide range of Agiltron fiber-optic products, including phase delay lines, polarization scramblers, optical switches, and optical attenuators. The element consists of a high-refractive-index optical material housed within a metal casing. Its epoxy-free construction provides excellent optical power handling capability, enhanced thermal stability, and long-term reliability. The design is simple, cost-effective, and fully compatible with automated manufacturing processes, making it well suited for high-volume production while maintaining consistent optical performance.

Features

- No Epoxy in the Lightpath
- High Power
- Ultra-high reliability
- Low insertion loss

Applications

- Communication
- Instruments

RoHS COMPLIANT

Specifications

Parameter		Min	Typical	Max	Unit
Transmission	1900-2500nm		90		%
	1650~2000nm		90		
	1260~1650nm		90		
	900~1300nm		90		
	550-950nm		95		
	350- 550nm		95		
Aperture		0.036	0.50	1	mm
Surface Quality		20		40	Dig
Length		7.5		13.5	mm
Optic power Handling	Normal power version		0.3	0.5	W
	High power version		5	10	W
Operating Temperature range		-20		70	°C
Storage Temperature		-40		100	°C

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Rev 06/30/26

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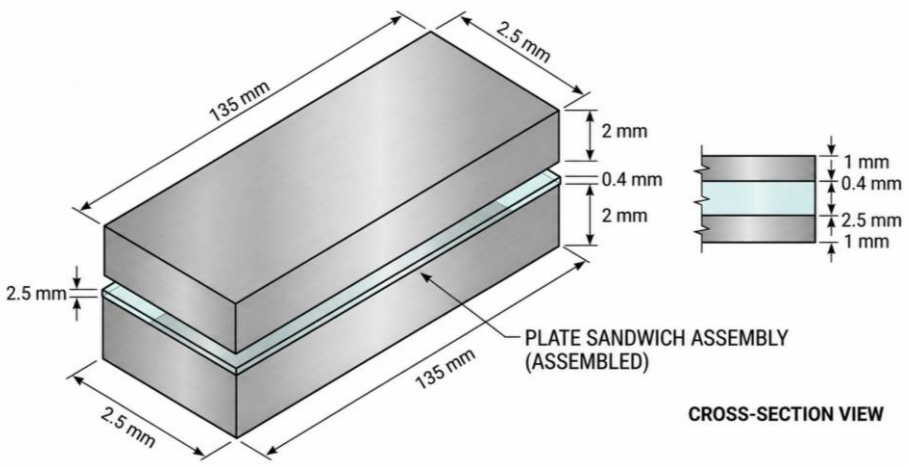
Construction Illustration



*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Ordering Information (Part Number)

	□□□	□□	□	□□	□	□
Prefix	**Type**	**Length**	**Configuration**	**Wavelength**	**Aperture**	**Holder**
OPAE-	LNX = LNX LNY = LNY LTZ = LTZ RTZ = RTZ	13.5mm = 13 7.5mm = 75 8mm = 80 20mm = 20	Single = 1 Dual = 2	1260~1650nm = 26 1900~2500nm = 92 1650~2000nm = 62 900~1300nm = 91 550~950nm = 59 350~550nm = 35 Special = 00	0.35mm = 2 0.5mm = 5 1mm = 1 3mm = 3	Flat = 1 45° = 4

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