

Optical Phase Adjust Element With Casing

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



DATASHEET

[Return to the Webpage](#)



Features

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

Applications

- Communication
- Instruments



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.

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

Legal notices: All product information is believed to be accurate and is subject to change without notice. Information contained herein shall legally bind Agiltron only if it is specifically incorporated into the terms and conditions of a sales agreement. Some specific combinations of options may not be available. The user assumes all risks and liability whatsoever in connection with the use of a product or its application.

Rev 06/30/26

P +1 781-935-1200

E sales@agiltron.com

W www.agiltron.com

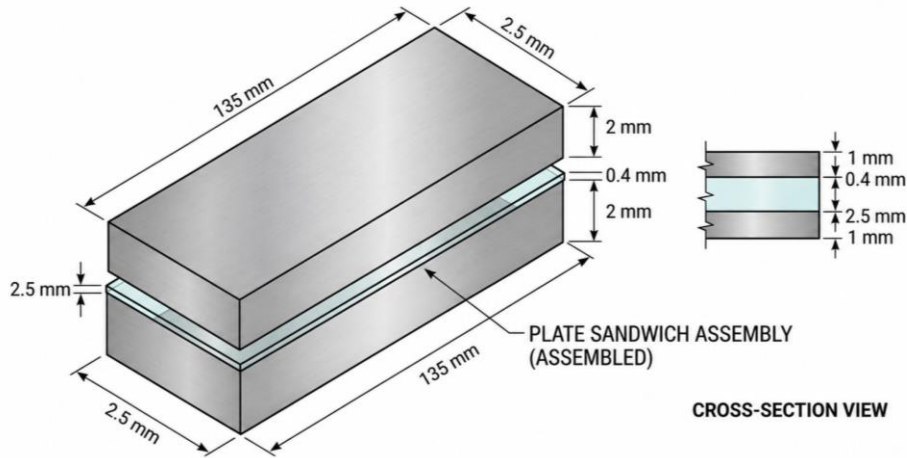
Optical Phase Adjust Element With Casing

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



DATASHEET

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