

**Ordering number CA10321_SPUTNIK-Z-SS**

Family	Sputnik	FWHM	10 degrees
Type	Lens	Efficiency	89 %
LED	P4	cd/Im	-
Color	Clear	Gerber File	Available
Diameter	26 mm		
Height	16.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape		
Status	Ready		

**Ordering number CA10322_SPUTNIK-Z-O**

Family	Sputnik	FWHM	14+36 degrees
Type	Lens	Efficiency	88 %
LED	P4	cd/Im	-
Color	Clear	Gerber File	Available
Diameter	-		
Height	-		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape		
Status	Ready		

**Ordering number CA10249_SPUTNIK-M**

Family	Sputnik	FWHM	25 degrees
Type	Assembly	Efficiency	86 %
LED	P4	cd/Im	-
Color	Clear	Gerber File	Available
Diameter	26 mm		
Height	16.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape		
Status	Ready		

**Ordering number CA10241_SPUTNIK-W**

Family	Sputnik	FWHM	66 degrees
Type	Lens	Efficiency	66 %
LED	P4	cd/Im	0.500
Color	Clear	Gerber File	Available
Diameter	26 mm		
Height	16.7 mm		
Style	Round		
Optic Material	PMMA		
Holder Material	-		
Fastening	Tape		
Status	Ready		



PRODUCT DATASHEET
Sputnik series
last update 13/11/2012



NOTE: The typical divergence will be changed by different color, chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.



PRODUCT DATASHEET

Sputnik series

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GENERAL INFORMATION

- Product series especially designed & optimized for P4 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PMMA with high UV and temperature resistance (105 degrees of Celcius / 220 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used material from below:

http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20UL94_Yellow%20Card.pdf

<http://ledil.fi/sites/default/files/Documents/Technical/Material/PMMA%20N%20PLEXIGLAS-Datasheet.pdf>

- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: http://www.ledil.com/datasheets/DataSheet_TAPE.pdf

NOTE 1: We advise customer to ensure the suitability and sufficiency of the bond in the end product. For example, mechanical stress, vibration and holes on the surface of the circuit board weaken the strength of the tape.

NOTE 2: Assembly to the surface must be made straight, so the tape bonds constant and balanced with fastening surface. Slanted assembly might cause unbalanced bond to the surface. All surfaces where tape is applied must be clean, dry and free from grease and dirt.

If cleaning of PCB surfaces is needed, please follow strictly the cleaning instructions of your LED manufacturer - this is important as cleaning shall under no circumstances damage LEDs or other electronics components on the PCB.

Further note that optical components shall not be cleaned with any chemicals - only micro fiber cloth may be used to remove fingerprints or other traces from handling.