

**Product number FA11233\_NIS53-SS**

Family	Rose	FWHM	15 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/Im	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number FA11234\_NIS53-D**

Family	Rose	FWHM	16 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/Im	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number FA11235\_NIS53-M**

Family	Rose	FWHM	30 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/Im	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number FA11236\_NIS53-O**

Family	Rose	FWHM	46+15.5 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/Im	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**Product number** FA11237\_NIS53-WW

Family	Rose	FWHM	66 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/lm	-
Color	White	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	PC		
Fastening	Tape		
Status	On production		

**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.

**GENERAL INFORMATION**

- Product series especially designed & optimized for NS9x153 series of LEDs.
- Special care taken to make light distribution as uniform as possible.
- Lens material optical grade PC with high UV and temperature resistance (120 degrees of Celcius / 248 degrees of Fahrenheit). Allows use of high current and temperature conditions.

Please find more information about used materials from below:

[http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400\\_2407\\_2456\\_2458-UL.pdf](http://ledil.fi/sites/default/files/Documents/Technical/Material/PC%20Makrolon%202400_2407_2456_2458-UL.pdf)

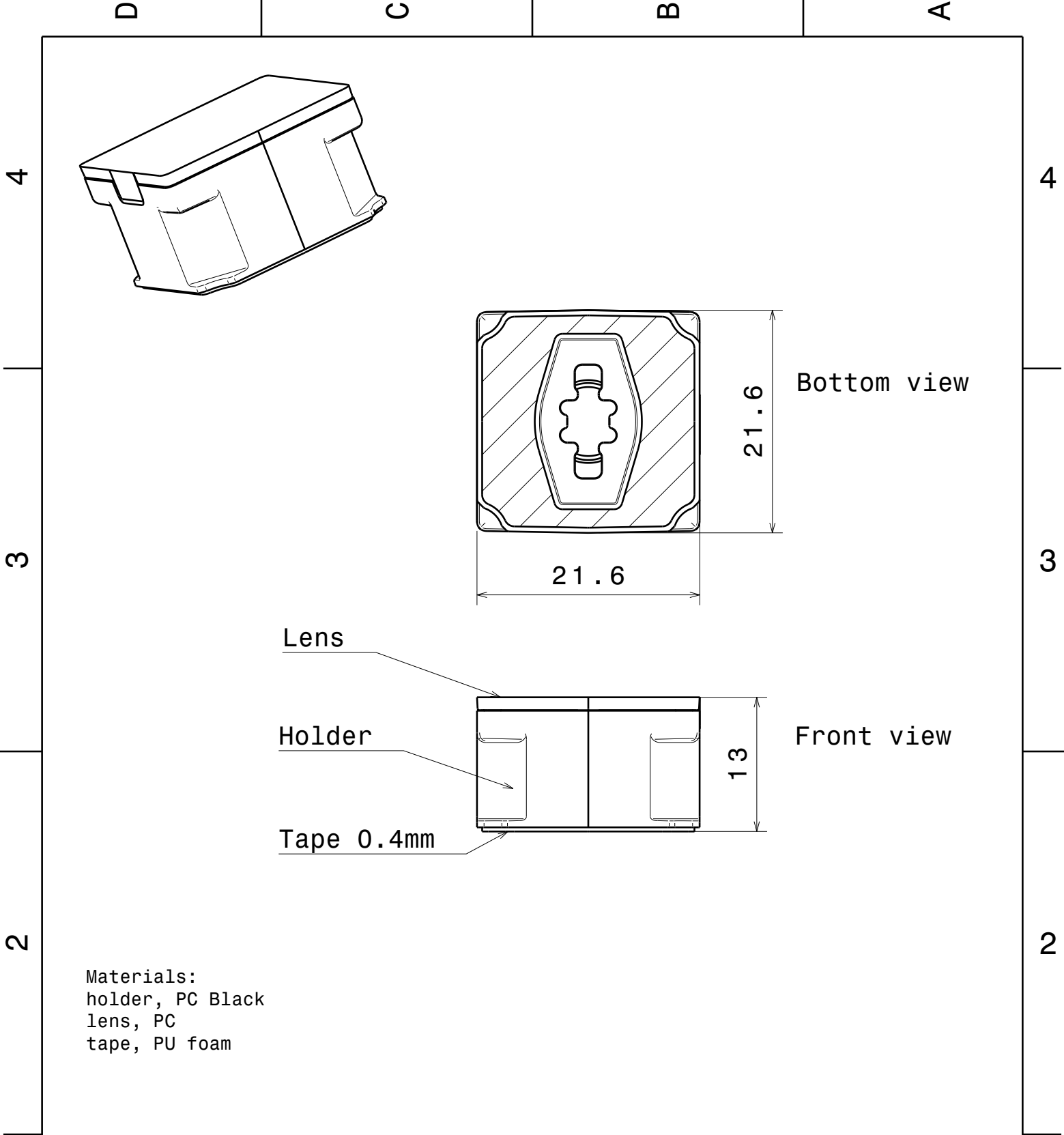
- Optic holder molded by high quality PC material (120 dergees of Celcius / 248 degrees of Fahrenheit).
- Fastening to heat sink with a PU foam adhesive tape of automotive grade. Please find fastening details by clicking link: [http://www.ledil.com/datasheets/DataSheet\\_TAPE.pdf](http://www.ledil.com/datasheets/DataSheet_TAPE.pdf)


**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.**



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		DRAWING TITLE Datasheet NIS53 assy			
DRAWN BY p	DATE 05.11.2009				
CHECKED BY T K	DATE 28.09.2009	SIZE A4	DRAWING NUMBER		REV 1
DESIGNED BY pv	DATE 28.09.2009	SCALE 2 : 1	WEIGHT (g) -		SHEET 1 / 1