

**Product number FA11233_NIS53-SS**

Family	Rose	FWHM	15 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/lm	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

**Product number FA11234_NIS53-D**

Family	Rose	FWHM	16 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/lm	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

**Product number FA11235_NIS53-M**

Family	Rose	FWHM	30 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/lm	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

**Product number FA11236_NIS53-O**

Family	Rose	FWHM	46+15.5 degrees
Type	Assembly	Efficiency	-
LED	NS9x153	cd/lm	-
Color	Black	Gerber File	Available
Diameter	21.6 + 21.6 mm		
Height	13 mm		
Style	Square		
Optic Material	PC		
Holder Material	-		
Fastening	["tape"]		
Status	Production ready		

PRODUCT DATASHEET
Rose series

last update 26/2/2013

**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	-		
Fastening	["tape"]		
Status	Production ready		

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.

The logo for LEDiL, featuring the letters 'LEDiL' in a white, sans-serif font on a yellow square background.

LEDiL

PRODUCT DATASHEET

Rose series

last update 26/2/2013

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