

# LENS OB-SPACE – F250/12.5

## GENERAL DESCRIPTION

THIS NEW GENERATION OF HIGH PERFORMING LENSES ARE REDESIGNING THE WORLD OF SPACE READY OPTICS AT A GLOBAL LEVEL, ENSURING DETAILS NEVER SEEN BEFORE, BOTH LOOKING AT INFINITY AND AT CLOSER WORKING DISTANCES.

INTERNAL RESEARCH HAS BROUGHT IN OUR PRODUCT PORTFOLIO SPACE COMPLIANT MATERIAL AND A NEW LIST OF RAD-HARD GLASSES, ALLOWING TO OUR OPTICAL DESIGNERS NEW DEGREES OF FREEDOM IN OBTAINING BLEEDING EDGE PERFORMING SYSTEMS.

ALL OUR LENSES ARE ASSEMBLED IN ISO5 ENVIRONMENT.



## LET US BE YOUR EYES IN THE SPACE!!!

OPTICAL AND MECHANICAL PARAMETERS			
FOCAL LENGTH@632NM	250 MM ± 2%	OPTICAL LAYOUT	DIOPTRIC
F/N	12.5	FOCUS	FIXED
IMAGE FORMAT	7,5MM	N. OF ELEMENTS	5
F.O.V.	±0.86°	WAVELENGTH RANGE	632NM
BACK FOCAL LENGTH	20MM	AR COATING	R<0.2% @400-650NM
RESOLUTION	MTF>15% @90LP/MM	FLANGE FOCAL LENGTH	CUSTOMIZED
DISTORTION	<1%	DIMENSIONS	153x62x62 MM
VIGNETTING	<1%	WEIGHT	0,260 KG
WORKING DISTANCE RANGE	INFINITY – 500M	QUALIFICATION LEVEL	NASA GEVS
AVERAGE TRANSMISSION	>96%	ATHERMALIZATION	-10°C / +40°C
RAD HARD	150KRAD	MOTORIZED FOCUS	UPON REQUEST
SUN EXCLUSION ANGLE	UPON REQUEST	OTHER MOUNT TYPE	UPON REQUEST
STRAY LIGHT	UPON REQUEST	CAMERA INTERFACE	CUSTOM DESIGN
		CUSTOMIZATION	UPON REQUEST

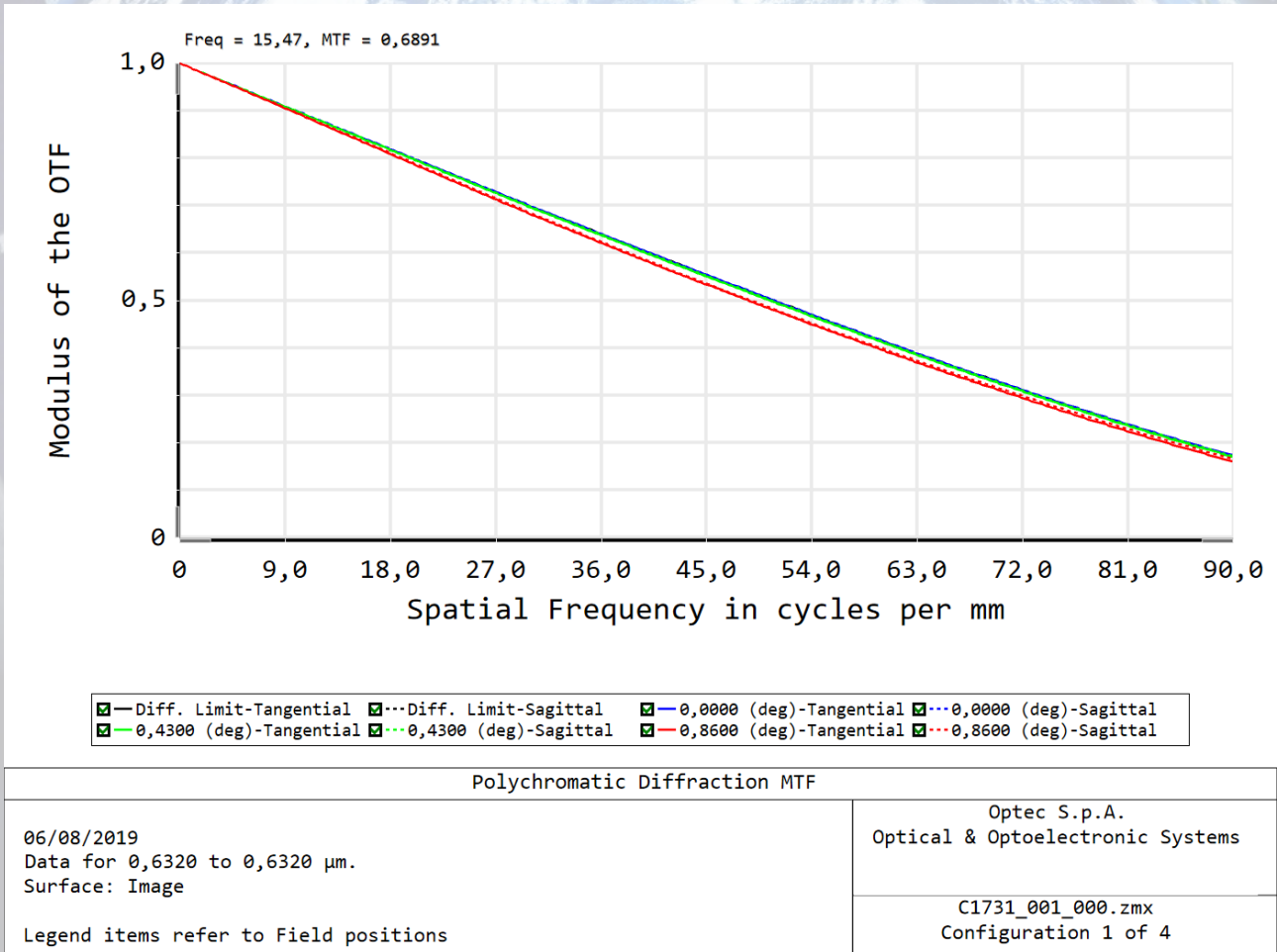
$$\text{Ground resolution} = \frac{WD \cdot \text{pixel\_size}}{\text{Focal length}}$$

$$\text{Area framed on the ground} = \frac{WD \cdot \text{sensor\_linear\_dimension}}{\text{Focal length}}$$

Where WD is the quote.

Specification are subject to change without notice

THE CALCULATED MTF VALUES ARE DISPLAYED BELOW AND ARE VERIFIED AT THE MAXIMUM F/N AND THE BEST FOCUS PLANE.  
THE COLORED LINES REPRESENT THE F.O.V. STARTING FROM THE CENTER (0%) TO THE CORNER (100%).



MORE DETAILS ARE AVAILABLE UPON REQUEST AND TECHNICAL DRAWINGS ARE OPEN FOR THE CUSTOMERS AND THEIR NEEDS.

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