

S5VPJ2898

Lens module specifications

Focus tunable lens (Optotune)	Model	EL-16-40-TC-VIS-5D			
	Focal power	-2	0	+3	dpt
Magnification		0.564	0.578	0.589	X
F/#		9.8	9.6	9.4	(Fixed)
Maximum sensor format		1			inch
Image circle (Φ)		16			mm
FoV (at max sensor format) H x V		21.5 x 16.2	22.1 x 16.6	22.5 x 16.9	mm
Working distance		98.2	92.0	81.7	mm
Field depth		1.1			mm
Optical leverage		3.4			mm/dpt
Optical Distortion		0.51	0.46	0.39	%
Telecentricity		0.01			°
Pixel size recommended		3.45			μm
MTF @ 50 lp/mm		50			%
Wavelength range		450 – 700			nm
Lifecycles (10-90% sinusoidal)		>1'000'000'000			cycles
Mount		C			
Dimension (Φ x L)		75.0 x 162.1			mm
Weight		850			g

Focus tunable lens specifications

EL-16-40-TC-VIS-5D

Focal power range (@30°C) ³	-2 to +3	dpt
Wavefront error (at 525 nm & 0 mA) Optical axis vertical / horizontal	<0.25/<0.5	λRMS
Operating temperature	-20 to +65	°C
Storage temperature	-40 to +85	°C
Temperature sensor & memory	STTS2004	(STMicroelectronics)

Electrical specifications

Control current (typical)	-250 to +250	mA
Absolute max. control current	-500 to 500	mA
Power consumption	0 to 0.7 (nominal) 0 to 2.8 (absolute max.)	W
Motor coil resistance @ 30°C	12	Ω
Absolute maximum voltage (coil)	10	V
Absolute maximum voltage (temp. sensor)	4.3	V

