

28° KATANA WAVEGUIDE SPECIFICATION SHEET



OVERVIEW

Parameter	Typical	Unit	Comment
Field of View	28° (21 x 21)	Degrees (hor. x vert.)	Diagonal (side injected)
LED centre wavelengths & bandwidth (FWHM)	R: 617 (15) G: 528 (74) B: 466 (26)	nm	
Input grating diameter	5	mm	
Image focus distance	Infinity		
Nominal eye relief	24	mm	
Eye-box	12 x 11	mm	at 24 mm eye relief

DESIGN CHARACTERISTICS

Parameter	Value	Unit	Comment
Efficiency	160	Nits/lumens	
MTF	18	Cycles/degree	≥30% contrast
Transmittance	85+	%	
Contrast	40:1	0	ANSI white checkerboard

MECHANICAL PROPERTIES

Parameter	Value	Unit	Comment
Dimensions	60 x 30	mm	Tolerance +/-0.15mm
Thickness	1.15	mm	
Weight	7	g	Dependent on outline
Shape outline	3D CAD available		Custom design possible

ENVIRONMENTAL MAXIMUM RATINGS

Parameter	Value	Unit	Comment
Thermal cycling	-40 to 70	°C	336hrs
High temp. storage	70	°C	336hrs
Low temp. storage	-40	°C	336hrs
High temp./humidity storage	60/90	°C/%	336hrs
Operating temperature	0-40	°C	

Note: Also available in monochrome (green only).

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