

40° D08 WAVEGUIDE SPECIFICATION SHEET



OVERVIEW

Parameter	Typical	Unit	Comment
Field of View	40° (35 x 20)	Degrees (hor. x vert.)	Diagonal (top injected)
LED centre wavelengths & bandwidth (FWHM)	R: 620 (15) G: 530 (74) B: 460 (26)	nm	
Input grating diameter	4	mm	
Image focus distance	Infinity		
Nominal eye relief	25	mm	
Eye-box	19 x 15	mm	at 25mm eye relief

DESIGN CHARACTERISTICS

Parameter	Value	Unit	Comment
Efficiency	175	Nits/lumens	
MTF	18	Cycles/degree	≥30% contrast
Transmittance	80+	%	
Contrast	40:1		ANSI white checkerboard

MECHANICAL PROPERTIES

Parameter	Value	Unit	Comment
Dimensions	39.14 x 44.14	mm	Tolerance +/-0.15mm
Thickness	3.1	mm	
Weight	12	g	Dependent on outline
Shape outline	D08 outline		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	



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