

# Visual Criteria (VC) Specification

OPT-SPEC-1003, Rev B

Visual Criteria (VC) summarized over 25mm diameter area of product or cut part. Large product sizes may not be available for all VC specifications.

Defect	VC0		VC1		VC2		VC4		Defect	VCIR	
	Spec	#Allowed	Spec	#Allowed	Spec	#Allowed	Spec	#Allowed		Spec	#Allowed
Contamination (Glass side)	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	Contamination (Silicon side)	>0.50mm 0.25-0.50mm <0.25mm	1 10 no limit
Liquid contamination (Al side)	in clear aperture	none	in clear aperture	none	in clear aperture	none	in clear aperture	none	Liquid contamination (Al side)	in clear aperture	none
Particulate Contamination (Al side)	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	Particulate Contamination (Al side)	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit
Dimensional	Outside Customer Spec	none	Outside Customer Spec	none	Outside Customer Spec	none	Outside Customer Spec	none	Dimensional	Outside Customer Spec	none
Edge Chip	W>1.0mm L>2.0mm d>D/2 Prog Crack	none none none none	W>1.0mm L>2.0mm d>D/2 Prog Crack	none none none none	W>1.0mm W<1.0mm L>2.0mm d>D/2 Prog Crack	none 1 none none none	W>1.0mm W<1.0mm L>2.0mm d>D/2 Prog Crack	none 5 none none none	Edge Chip	in clear aperture prog crack	none none
Eyeballs	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.50mm 0.30-0.50mm <0.30mm	none 6 no limit	>1.00mm 0.30-1.00mm <0.30mm	none 6 no limit	Eyeballs	>1.00mm 0.30-1.00mm <0.30mm	none 6 no limit
Dig	>0.15mm	none	>0.15mm	none	>0.30mm	none	>0.50mm	none	Dig	>0.50mm	none
Pinholes	>0.15mm <0.15mm	none no limit	>0.30mm 0.15-0.30mm <0.15mm	none 4 no limit	>0.50mm 0.30-0.50mm <0.30mm	none 4 no limit	>1.50mm 0.60-1.50mm <0.60mm	none 5 no limit	Pinholes	>1.50mm 0.60-1.50mm <0.60mm	none 5 no limit
Scratches (Al)	W>0.03mm L>5.0mm	none none	W>0.03mm L>5.0mm	none none	W>0.10mm L>10.00mm	none none	W>0.10mm L>25.0mm W=0.05-0.10mm L=15.0-25.0mm W<0.05mm L<15.0mm	none none 1 1 no limit no limit	Scratches (Al)	W>0.10mm L>25.0mm W=0.05-0.10mm L=10.0-25.0mm W<0.05mm L<10.0mm	none none 1 1 no limit no limit
Scratches (Glass)	W>0.05mm L>10.0mm	none none	W>0.05mm L>10.0mm	none none	W>0.07mm L>15.0mm	none none	W>0.08mm L>25.0mm W=0.05-0.08mm L=15.0-25.0mm W<0.05mm L<15.0mm	none none 1 1 no limit no limit	Scratches (Silicon)	W>0.25mm L>25.0mm W=0.10-0.25mm L=10.0-25.0mm W<0.10mm L<10.0mm	none none 2 2 no limit no limit
Spin Defect	in clear aperture	none	in clear aperture	none	>10mm	none	>10.0mm	none	Spin Defect	>10.0mm	none
Spot	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.30mm 0.15-0.30mm <0.15mm	none 6 no limit	>0.50mm 0.30-0.50mm <0.30mm	none 4 no limit	>1.50mm 0.60-1.50mm <0.60mm	none 5 no limit	Spot	>1.50mm 0.75-1.50mm <0.75mm	none 5 no limit
Stains	crossed parallel	none none	crossed parallel	none none	>10.0mm <10.0mm	none no limit	>20.0mm 10.0-20.0mm <10.0mm	none 1 no limit	Stains	>20.0mm 10.0-20.0mm <10.0mm	none 1 no limit



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