

## REVISIONS

ZONE	REV	DESCRIPTION	ECO NO.	APPD.	DATE
ALL	B	20mm; add -02 -03	.	DHJ	11/5/04

0.5±0.05  
NOTES:

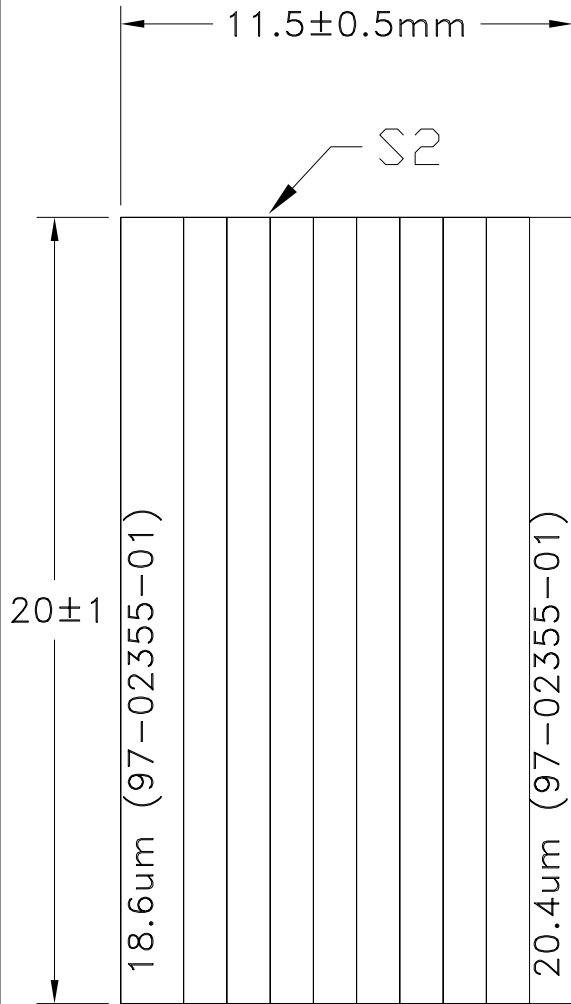
1. Material is congruent, periodically-poled lithium niobate. Domain periods as per Note 2. The leftmost strip (shortest period as indicated) is 0.5mm wider than the other strips. The period of each strip increases by "step" from the leftmost to the rightmost. The rightmost strip has period indicated with "longest". The width of the strips (except the leftmost) is indicated with "width" in Note 2. The ±Z faces are etched to decorate domains. They may appear spotty and uneven.

2. Patterns for part numbers (-01 shown)

Item number	strips	shortest	longest	step	width
97-02355-01	10	18.6um	20.4um	0.2um	1.06mm
97-02355-02	9	18.6um	20.3um	0.2um	1.18mm
97-02355-03	6	21.8um	22.3um	0.1um	1.76mm

3. S1 and S2 are polished to 20-10 scratch dig, flat to 1/8 wave. Edges not bevelled. Edge-chips larger than 100 microns on S1 and S2 are fewer than 2 per face. The aperture size in the Z dimension of S1 and S2 is a minimum of 400 microns.

4. S1 and S2 are parallel within 5 minutes.



Domain layout shown here  
for 97-02355-01 only  
(see NOTE 2)

**For Reference  
Only**

FINISH: SEE NOTES		CONTRACT NUMBER	
MATERIAL: SEE NOTES		DR. DHJ	11/5/04
SPEC. NO.		CHK.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm		APPD.	
<b>TOLERANCES</b>		APPD.	
INCHES	MILLIMETERS	DESIGN ACTIVITY APPROVAL:	
.XX ± .01	X.XX ± 0.25	CUSTOMER APPROVAL:	
.XXX ± .005	X.XXX ± 0.125		
.XXXX ± .0020	SURFACE FINISH 63/	DO NOT SCALE DRAWING	
ANG ± .5°			



**Crystal Technology, Inc.**

AN EPCOS Company

TITLE:  
PPLN 11.5(Y)x.5(Z)x20(X)  
multi period PPLN

SIZE	DWG. NO.	REV.
A	97-02355-XX	B

SCALE: N/A SH. 1 OF 1