

QUESTTECH

Aluminum Oxide (Alumina) Parts

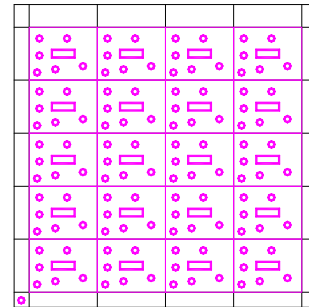
Applications

General

Supplier of all types of laser cut blanks per your design
 Extensive stock of raw material from most major manufacturers on hand
 Optical alignment to your circuit pattern for "post print machining"
 May be combined with diamond edge sawing
 Volume production and prototype quantities

Types

92% to 99.6% Alumina
 Opaque or white
 As fired, lapped or polished
 Machined features
 Via holes Mounting holes
 Tooling flats Castellations
 Intricate cut outs
 Scribed for post printing snap apart



Typical Cuts in Alumina

Uses

"Pre-drill" and "Post-Cut" operations
 Thick Film Circuits
 Thin Film Circuits

Design Guidelines

Property	Nominal	Units
Maximum Thickness	0.060	Inches
Minimum Radius	0.003	Inches
Smallest Feature	0.004	Inches
Taper Front to Back	25% to 30%	Of Material Thickness
Feature Size Tolerance	+/- 0.002*	Inches
Feature to Feature Proximity	.010 Min.	Inches
Feature to Edge Proximity	.020	Inches
Maximum Scribe Depth	0.030	Inches
Scribed Edge Break Flare	0.003 Max.	Inches
Scribe Cone (Pulse) Spacing	0.006	Inches
Cut alignment accuracy to circuit feature	+/-0.002	Inches

* As measured at either front or back side

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