

## Standard Surface Finishes and Dimensions

Product Family*	Std. Surface Finishes Ra	Thickness** Range	Lengths**	Widths**
<b>Garnets</b>	A = $\leq 5\mu$ " polished B = 6-12 $\mu$ " fine matte C = 12-22 $\mu$ " matte D = <32 $\mu$ " ground			
<b>Lithium Ferrites</b>	B = 6-12 $\mu$ " fine matte C = 12-22 $\mu$ " matte D = <32 $\mu$ " ground	.010" to .100" $\pm$ .001" .015" to .100" $\pm$ .001" .020" to .100" $\pm$ .001"	1.000" $\pm$ .005" 2.000" $\pm$ .010" 3.000" $\pm$ .010"	1.000" $\pm$ .005" 2.000" $\pm$ .010" 3.000" $\pm$ .010"
<b>Dielectric Materials</b>	A = $\leq 5\mu$ " polished B = 6-12 $\mu$ " fine matte C = 12-22 $\mu$ " matte D = <32 $\mu$ " ground	.025" to .100" $\pm$ .001"		

\* Refer to catalog for material type required.

\*\* Custom sizes, consult the factory.

## Quality Assurance Inspection Specifications

Inspection	Grade A	Grade B	Grade C	Grade D
Type	Polished	Fine matte	Matte	Ground
Surface finish	$\leq 5\mu$ "	6-12 $\mu$ "	12-22 $\mu$ "	<32 $\mu$ "
Camber	<.0005"/inch	<.001"/inch	<.001"/inch	<.002"/inch
Thickness	$\pm$ .001"	$\pm$ .001"	$\pm$ .001"	$\pm$ .001"
Width	$\pm$ .010"	$\pm$ .010"	$\pm$ .010"	$\pm$ .010"
Length	$\pm$ .010"	$\pm$ .010"	$\pm$ .010"	$\pm$ .010"
Perpendicularity	.005"/inch	.005"/inch	.005"/inch	.005"/inch
Parallelism	.001"/inch	.001"/inch	.001"/inch	.001"/inch
Chips/ number per surface	One per side	One per side	One per side	One per side
Chips/edge	(.030" max for 1" x 1" - .063" max for 2" x 2" and greater)			
Chips/ depth	.020"	.020"	.020"	.020"
Pits/ number per surface	3 per sq. in. max	3 per sq. in. max	3 per sq. in. max	3 per sq. in. max
Pits	<.010" dia.	<.015" dia.	<.020" dia.	<.025" dia.
Cracks	None	None	None	None
Scratches	(Not to exceed surface finish tolerance)			
Blemishes/ number per surface	3 per sq. in. max	3 per sq. in. max	3 per sq. in. max	3 per sq. in. max
Blemishes	<.030" dia	<.030" dia	<.030" dia	<.030" dia

## Substrate Cleanliness

Substrates shall be free of dirt, dust, grease, oil, and surface contaminants. Prior to metallization, the substrate surface may require a special cleaning procedure. Please contact Pacific Ceramics for additional information.