Ceramic Wafer & Substrate

Aluminum Nitride	Corning EAGLE XG	ITO Coated Glass /	Silicon Nitride (Si3N4)
Substrates: AIN	Glass	Plastic Substrates	Substrate
Aluminum Oxide	FTO Glass	Mica Disks Highest	YSZ (Yittrium stablized
Substrates Al2O3	F10 Glass	Grade V1	ZrO2)
BeO Ceramic Substrate	Fused Silica Substrates:	Pyrolytic Graphite	
beo Ceramic Substrate	SiO2	Substrate	

1. Aluminum Nitride Substrates: AIN

No.	Item	Description
		AIN Ceramic Substrate made by tape casting:
1.	AIN Ceramic Substrate	Purity: > 99% (AIN5116)
'-	1"x1"x 0.5mm, 1sp	Size: 1" x 1" x 0.5 mm
		Polishing: One side polished
		Surface Roughness: < 100A
		AIN Ceramic Substrate made by tape casting:
	AINI Commission Contratants	Duritury 2009/ (AINISAAO)
2.	AIN Ceramic Substrate	Purity: > 99% (AIN5116)
	2"x2"x 0.5mm, 1sp	Size: 2" x 2" x 0.5 mm
		Polishing: One side polished
		Surface Roughness: < 100A AIN Ceramic Substrate made by tape casting:
		AIN Ceramic Substrate made by tape casting.
	AIN Ceramic Substrate	Purity: > 99% (AIN5116)
3.	2"x2"x 0.5mm, 2sp	Size: 2" x 2" x 0.5 mm
	2 X2 X 0.0111111, 20p	Polishing: Two sides polished
		Surface Roughness: < 100A
		AIN Ceramic Substrate made by tape casting:
	AINI Cararria Cubatrata	
4	AIN Ceramic Substrate	Purity: > 99% (AIN5116)
4.	2"x2"x 1.0 mm, as	Size: 2" x 2" x 1.0 mm
	lapping	Two sides lapped (fine ground)
		Surface Roughness: < 0.5 microm
		AIN Ceramic Substrate made by tape casting:
5.	AIN Substrate 10x10x	Purity: > 99%
0.	0.5mm, 1sp	Size: 10x10 x 0.5 mm
		Polishing: One side polished
	OII AL	Surface Roughness: < 100A
	3" Aluminum Nitride	Such unpolished Aluminum Nitride can be placed in the center of holder for
6.	Substrate for RTP	holding test samples up to 3" diam. The excellent temperature uniformity can
1	Furnace's Sample	be achieved in this 3" diam. area due to the benefit from its high thermal
	Holder - EQ-AIN-Holder	conductivity.

2. Aluminum Oxide Substrates Al2O3

No.	Item	Description
		Al2O3 Ceramic Substrate made by tape casting:
1.	Alumina Ceramic Substrate 1" x 1" x 0.5 mm fine ground	Purity: 96% Size: 1" x 1" x 0.5 mm Polishing: fine ground both side Surface Roughness: < 1 microm
		Al2O3 Ceramic Substrate made by tape casting:
2.	Alumina Ceramic Substrate 1"x1"x 1.0mm fine ground	Purity: 96% Size: 1" x 1" x 0.5 mm Polishing: fine ground both side Surface Roughness: < 1 microm
3.	Alumina Ceramic Substrate 10x10x0.5 mm , one side polished_1	Al2 O3 Ceramic Substrate made by tape casting: Purity: 96% Size: 10 x 10 x 0.5 mm Polishing: One side polished Surface Roughness: < 100A
4.	Alumina Ceramic Substrate 10x10x0.5 mm , two sides polished	Al2 O3 Ceramic Substrate made by tape casting: Purity: 96% Size: 10 x 10 x 0.5 mm Polishing: two sides polished Surface Roughness: < 100A
5.	Alumina Ceramic Substrate 3"x3"x 0.5mm,1sp	Al2 O3 Ceramic Substrate made by tape casting: Purity: 96% Size: 3"x3"x 5mm Polishing: One side polished Surface Roughness: < 1 micron
6.	Alumina Ceramic Substrate 3"x3"x 0.635mm, fine ground	Al2O3 Ceramic Substrate made by tape casting: Purity: 96% Size: 3"x3"x 0.635mm Polishing: fine ground Surface Roughness: < 1 micron
7.	High Purity (Purity :99.6%) Alumina Ceramic Substrate 1"x1"x 0.254mm,1sp	Al2O3 Ceramic Substrate: Purity: 99.6% Size: 1" x 1" x 0.254 mm Polishing: One side polished Surface Roughness: < 1 microinch or < 25 nm
8.	High Purity (Purity :99.6%) Alumina Ceramic Substrate 1"x1"x 0.254mm,2sp	Al2 O3 Ceramic Substrate: Purity: 99.6% Size: 1"x1"x0.254 mm Polishing: Two sides polished Surface Roughness: < 1 microinch or < 25 nm
9.	High Purity (Purity :99.6%) Alumina Ceramic Substrate 2"x2"x 0.5mm,1sp	Al2 O3 Ceramic Substrate; SUPERSTRATE 996: Purity: 99.6% Grain Size: < 1.0 Micron Size: 2.0" +/020" SQ x .020" +/0005" THICK or 2" x 2" x 0.5 mm th Polishing: one side polished, 1sp Surface Roughness: < 1 microinch or 25 nm Flatness: .0005"/" measured in the restrained state.
10.	High Purity (Purity :99.6%) Alumina Ceramic Substrate	Al2O3 Ceramic Substrate; SUPERSTRATE 996: Purity: 99.6%

	2"x2"x 0.5mm,2sp	Grain Size: < 1.0 Micron Size: 2.0" +/020" SQ x .020" +/0005" THICK or 2" x 2" x 0.5 mm th Polishing: Two sides polished, 2sp Surface Roughness: < 1 microinch or 25 nm Flatness: .0005"/" measured in the restrained state.
11.	High Purity (Purity :99.9%) Alumina Ceramic Substrate 2"x2"x 0.5mm,1sp	Al2O3 Ceramic Substrate; SUPERSTRATE 999: Purity: 99.9% Grain Size: 3.0 Microns Size: 2.0" +/020" x .020" +/0005" THICK or 2" x 2" x 0.5 mm th Polishing: One side polished, Surface Roughness: < 1 microinch or 25 nm Flatness: .0001"/" measured in the restrained state.
12.	High Purity (Purity :99.9%) Alumina Ceramic Substrate 2"x2"x 0.5mm,2sp	Al2O3 Ceramic Substrate; SUPERSTRATE 999: Purity: 99.9% Grain Size: 3.0 Microns Size: 2.0" +/020" x .020" +/0005" THICK or 2" x 2" x 0.5 mm th Polishing: Two sides polished, Surface Roughness: < 1 microinch or 25 nm Flatness: .0001"/" measured in the restrained state.

3. BeO Ceramic Substrate

No.	Item		Descrip	tion	
		BeO Ceramic Substrate: Purity: > 99%			
		Size: 2" x 2" x 0.019" Surface finish: fine ground 15-30 micron			
		BeO Ceramic Properties			
		Property	Condition	Unit	Value
		Density		g/cm 3	≥2.85
		BeO purity		%	≥99
		Tensile strength		МРа	≥140
		linear expansion coeff.	20 -500	×10 -4 /	7-8.5
	BeO Ceramic Substrate	Thermal Conductivity	40	W/m·k	≥250
1.	2"x 2"x0.019", fine	Specific Heat	25	cal/°C gm	0.25
	ground	Hardness	60	Rockwell	
		Dialectic Constant	1MHz 20		6.5-7.5
			10GHz 20		6.5-7.5
			1MHz 20	×10 -4	≤4
			10GHz 20	×10 -4	≤8
		Resistivity	100	Ω.cm	≥10 ¹³
			300	Ω.cm	≥10¹0
		Dialectic Strength	DC	KV/mm	≥15
		Chemical stability	1:9HCl	ug/cm 2	≤0.3
			10% NaOH	ug/cm 2	≤0.2
		Max. working Temperature			1800
		BeO Ceramic Substrate:			
2.	BeO Ceramic Substrate 2"x 2"x0.5 mm, 1sp	Purity: > 99% Size: 2" x 2" x 0.5 mm Surface finish: one side I side: lapped 25-45 micro		hed down to <4	micron and the other

BeO Ceramic Properties			
Property	Condition	Unit	Value
Density		g/cm 3	≥2.85
BeO purity		%	≥99
Tensile strength		MPa	≥140
linear expansion coeff.	20 -500	×10 -4 /	7-8.5
Thermal Conductivity	40	W/m·k	≥250
Specific Heat	25	cal/°C gm	0.25
Hardness	60	Rockwell	
Dialectic Constant	1MHz 20		6.5-7.5
	10GHz 20		6.5-7.5
	1MHz 20	×10 -4	≤4
	10GHz 20	×10 -4	≤8
Resistivity	100	Ω.cm	≥10 ¹³
	300	Ω.cm	≥10 ¹⁰
Dialectic Strength	DC	KV/mm	≥15
Chemical stability	1:9HCl	ug/cm 2	≤0.3
	10% NaOH	ug/cm 2	≤0.2
Max. working Temperature			1800

4. Corning EAGLE XG Glass

No.	Item	Description
1.	Corning EAGLE XG® Glass Substrates 100mm x 100 mm x 0.7 mm,	Features: Corning EAGLE XG® Glass Substrates Dimension: 100 mm x 100mm x 0.7 mm High transmission (75-80 %) Low defect densities Low ohmic values Highly transparent ,conductive coating LCD and OLED applications

5. FTO Glass

No.	Item	Description
1.	FTO Glass Substrate (TEC 7) 1" x 1" x 2.2 mm, R: 6-8 ohm/sq 25pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC7) Dimension: 1" x 1" x 2.2 mm Nominal FTO Film thickness: <250 nm Resistivity: 6-8 ohm/sq Visible Transmittance: 80-82 % Haze: 5% Heat Flow thru Glass: clear glass at 22 deg C/air space/clear glass at 4 C: 64 W/m^2
2.	FTO Glass Substrate (TEC 7) 1.0" x 3" x 2.2 mm, R: 6-8 ohm/sq, 25pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC7) Dimension: 1" x 3" x 2.2 mm Nominal FTO Film thickness: <250 nm Resistivity: 6-8 ohm/sq Visible Transmittance: 80-82 % Haze: 5% Heat Flow thru Glass: clear glass at 22 deg C/air space/clear glass at 4 C: 64 W/m^2

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3.	FTO Glass Substrate (TEC 7) 100 x 100 x 2.2 mm, R: 6-8 ohm/sq 25 pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC7) Dimension: 100x100x 2.2 mm Nominal FTO Film thickness: <250 nm Resistivity: 6-8 ohm/sq Visible Transmittance: 80-82 % Haze: 5% Heat Flow thru Glass: clear glass at 22 deg C/air space/clear glass at 4 C: 64 W/m^2
4.	FTO Glass Substrate (TEC 15) 1" x 1" x 2.2 mm, R:12-14 ohm/sq 25pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC15) Dimension: 1" x 1" x 2.2 mm Nominal FTO Film thickness: <200 nm Resistivity: 12-14 ohm/sq Phi (work function): 4.92~5.12 eV (Kelvin probe) Visible Transmittance:82-84.5 % Haze: <= 0. 74 % Heat Flow thru Glass: TEC 15 at 22 deg C/ air space/clear glass at 4 C: 43 W/m^2 Heat Flow thru Glass: clear glass at 22 deg C/air space/clear glass at 4 C: 64 W/m^2 Please click to download MSDS
5.	FTO Glass Substrate (TEC 15) 100 x 100 x 2.2 mm, R: 12-14 ohm/sq 25 pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC15) Dimension: 100x100x 2.2 mm Nominal FTO Film thickness: <200 nm Resistivity: 12-14 ohm/sq Phi (work function): 4.92~5.12 eV (Kelvin probe) Visible Transmittance:82-84.5 % Haze: <= 0. 74 % Heat Flow thru Glass: TEC 15 at 22 deg C/ air space/clear glass at 4 C: 43 W/m^2 Heat Flow thru Glass: clear glass at 22 deg C/air space/clear glass at 4 C: 64 W/m^2
6.	FTO Glass Substrate (TEC 15) 1.0" x 3" x 2.2 mm, R: 12-14 ohm/sq, 25pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC15) Dimension: 1" x 3" x 2.2 mm Nominal FTO Film thickness: <200 nm Resistivity: 12-14 ohm/sq Phi (work function): 4.92~5.12 eV (Kelvin probe) Visible Transmittance: 82-84.5 % Haze: <= 0. 74 % Heat Flow thru Glass: TEC 15 at 22 deg C/ air space/clear glass at 4 C: 43 W/m^2 Heat Flow thru Glass: clear glass at 22 deg C/air space/clear glass at 4 C: 64 W/m^2
7.	FTO Glass Substrate (TEC 70) 1.0" x 3" x 3.2 mm, R: 58-72 ohm/sq ,25pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC70) Dimension: 1" x 3" x 3.2 mm Nominal FTO Film thickness: <150 nm Resistivity: 58~72 ohm/sq Phi (work function): 4.83~5.03 eV (Kelvin probe) Visible Transmittance:82-84.5 % Haze: 0.5% Heat Flow thru Glass: TEC 70 at 27 deg C/ air space/TEC 15 glass at -20 C: 86 W/m^2 Heat Flow thru Glass: TEC 70 at 27 deg C/ air space/clear glass/air space/clear glass at -20 C: 94 W/m^2
8.	FTO Glass Substrate(TEC 70) 1" x 1" x 3.2 mm, R:58-72 ohm/sq 25 pcs /Pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC70) Dimension: 1" x 1" x 3.2 mm Nominal FTO Film thickness: <150 nm Resistivity: 58~72 ohm/sq Phi (work function): 4.83~5.03 eV (Kelvin probe) Visible Transmittance:82-84.5 % Haze: 0.5% Heat Flow thru Glass: TEC 70 at 27 deg C/ air space/TEC 15 glass at -20 C: 86 W/m^2

			Heat Flow thru Glass: TEC 70 at 27 deg C/ air space/clear glass/air space/clear glass at -20 C: 94 W/m^2
,	9.	FTO Glass Substrate (TEC 70) 100x100 x 3.2 mm, R:58-72 ohm/sq 25pcs /pack	Fluorine-Tin-Oxide (FTO) coated Glass Plates (Corning brand-TEC70) Dimension: 100x100 x 3.2 mm Nominal FTO Film thickness: <150 nm Resistivity: 58~72 ohm/sq Phi (work function): 4.83~5.03 eV (Kelvin probe) Visible Transmittance: 82-84.5 % Haze: 0.5% Heat Flow thru Glass: TEC 70 at 27 deg C/ air space/TEC 15 glass at -20 C: 86 W/m^2 Heat Flow thru Glass: TEC 70 at 27 deg C/ air space/clear glass/air space/clear glass at -20 C: 94 W/m^2

6. Fused Silica Substrates: SiO2

No.	Item	Description
1.	Fused Silica Glass Substrate, 0.5"x0.5"x0.5 mm, 2sides polished	UV grade Fused Silica: Size: 0.5" x 0.5" x 0.5 mm Polishing: Two sides polished Surface Roughness: < 5 A
2.	Fused Silica Glass Substrate, 1"x1"x1.4 mm, 2 sides optical polished	Optical grade Fused Silica: Size: 1"x1"x1.4 mm, Polishing: Two sides optical polished(S/D 60/40)
3.	Fused Silica Glass Substrate, 10x10x0.5 mm, 1 side polished	UV grade Fused Silica: Size: 10 x 10 x 0.5 mm Polishing: One side polished Surface Roughness: < 5 A
4.	Fused Silica Glass Substrate, 10x10x0.5 mm, 2 side polished	UV grade Fused Silica: Size: 10 x 10 x 0.5 mm Polishing: Two sides polished Surface Roughness: < 5 A
5.	Fused Silica Glass Substrate, 10x10x1.0mm, 1 side polished	UV grade Fused Silica Size: 10 x 10 x 1.0mm Polishing: One side polished Surface Roughness: < 5 A
6.	Fused Silica Glass Substrate, 10x10x1.0mm, two sides polished	UV grade Fused Silica: Size: 10 x 10 x 1.0mm Polishing: Two sides polished Surface Roughness: < 5 A
7.	Fused Silica Glass Substrate, 2"x0.5 mm, 2 sides polished	UV grade Fused Silica: Size: 2"x0.5mm Polishing: Two sides polished Surface Roughness: < 5 A
8.	Fused Silica Glass Substrate, 25mm x 1.0mm(+/-0.1) 2 sides optical polishedwith S/D: 60/40	Optical grade Fused Silica: Size: 25mm dia. x 1.0mm(+/-0.1) thick Polishing: Two sides optical polished with S/D: 60/40
9.	Fused Silica Glass Substrate, 4" x 0.5 mm, 1 sides polished	UV grade Fused Silica: Size: 4"diameter x 0.5 mm Polishing: one side polished Surface Roughness: < 5 A

10	Fused Silica Glass Substrate, 4" x 0.5 mm, 2 sides polished	UV grade Fused Silica: Size: 4"diameter x 0.5 mm Polishing: Two sides polished
		Surface Roughness: < 5 A
1	Fused Silica Glass , 2" x 0.5 mm, 1sp	UV grade Fused Silica: Size: 2" diameter x 0.5 mm Polishing:One side polished For DIY glass window and substrate
12	Fused Silica Glass Substrate, 100 x 100 x 1.0 mm, 2 sides polished	UV grade Fused Silica: Size: 100 mm x 100 mm x 1.0 mm Polishing: Two sides polished Surface Roughness: < 5 A

7. ITO Coated Glass / Plastic Substrates

A. ITO Coated Glass, 10mmx10mmx 0.7mm

No.	Item	Description
	ITO Coated Glass	Indium-Tin-Oxide (ITO) coated Glass Plates:
	Substrate 10mm x 10	
1.	mm x 0.7 mm, R:9-15	Dimension: 10 mm x 10mm x 0.7 mm
	ohm/sq,Nominal ITO film	Resistivity: 9-15 ohm/sq
	thickness: 180 nm	Nominal ITO film thickness: 180 nm

B. ITO Coated Glass, 1" x1"x 0.7mm

No.	Item	Description
1.	ITO Coated Glass Substrate 1" x 1" x 0.7 mm, R: 16-19 ohm/sq, Nominal ITO film thickness: 90 nm+/10nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 1" x 1" x 0.7 mm Resistivity: 16-19ohm/sq Nominal ITO film thickness: 90 nm+/10nm
2.	ITO Coated Glass Substrate 1" x 1" x 0.7 mm, R:12-15 ohm/sq, Nominal ITO film thickness: 115 nm+/10nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 1" x 1" x 0.7 mm Resistivity: 12-15 ohm/sq Nominal ITO film thickness: 115 nm+/10nm
3.	ITO Coated Glass Substrate 1" x 1" x 0.7 mm, R:6-7 ohm/sq, Nominal ITO film thickness: 250 nm+/25nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 1" x 1" x 0.7 mm Resistivity: 6-7 ohm/sq Nominal ITO film thickness: 250 nm+/25nm
4.	ITO Coated Glass Substrate 1" x 1" x 0.7 mm, R:9-15 ohm/sq, Nominal ITO film thickness: 180 nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 1" x 1" x 0.7 mm Resistivity: R:9-15 ohm/sq Nominal ITO film thickness: 180 nm

C. ITO Coated Glass, 1" x3"x 0.7mm

No.	Item	Description
1.	ITO Coated Glass Substrate 1.0" x 3" x 0.7 mm,R: 6-7 ohm/sq, Nominal ITO film thickness: 250 nm+/- 25nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 1" x 3" x 0.7 mm Resistivity: 6-7 ohm/sq Nominal ITO film thickness: 250 nm+/-25nm
2.	ITO Coated Glass Substrate 1.0" x 3" x 0.7 mm,R: 9-15 ohm/sq, Nominal ITO film thickness: 180 nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 1" x 3" x 0.7 mm Resistivity: 16-19 ohm/sq Nominal ITO film thickness: 180 nm

D. ITO Coated Glass, 100mm x100mm x 0.7mm

No.	Item	Description
1.	ITO Coated Glass	Indium-Tin-Oxide (ITO) coated Glass Plates:
	Substrate 100mm x 100	
	mm x 0.7 mm, R: 9-15	Dimension: 100 mm x 100mm x 0.7 mm
	ohm/sq, Nominal ITO	Resistivity: 9-15 ohm/sq
	film thickness: 180 nm	Nominal ITO film thickness: 180 nm
2.	ITO Coated Glass	Indium-Tin-Oxide (ITO) coated Glass Plates:
	Substrate with ITO film	
	115+/-10 nm 100mm x	Dimension: 100 mm x 100mm x 0.7 mm
	100 mm x 0.7 mm, 12-	Resistivity: 12-15 ohm/sq
	15 ohm/sq	ITO film thickness:~115+/-10 nm
_	ITO Control Class	Indiana Tia Ovida (ITO) was fad Olasa Blatas.
3.	ITO Coated Glass	Indium-Tin-Oxide (ITO) coated Glass Plates:
	Substrate with ITO film 180+/-25 nm 100mm x	Dimension: 100 mm x 100mm x 0.7 mm
	100 mm x 0.7 mm, 8-10 ohm/sa	Resistivity: 8 - 10 ohm/sq ITO film thickness:~180+/-25 nm
4.	ITO Coated Glass	Indium-Tin-Oxide (ITO) coated Glass Plates:
4.	Substrate with ITO film	indiant-fin-Oxide (110) coaled Glass Flates.
	thickness about 250+/-	Dimension: 100 mm x 100mm x 0.7 mm
	25 nm 100mm x 100 mm	Resistivity: 6-7 ohm/sq
	x 0.7 mm, 6-7 ohm/sq	ITO film thickness:~ 250+/-25 nm
5.	ITO Coated Glass	Indium-Tin-Oxide (ITO) coated Glass Plates:
	Substrate with ITO film	
	thickness about 90+/-	Dimension: 100 mm x 100mm x 0.7 mm
	10nm 100mm x 100 mm	Resistivity: 16-19 ohm/sq
	x 0.7 mm, 16-19ohm/sq	ITO film thickness: 90+/-10nm

E.ITO Coated Glass, 2"x 0.7mm

No.	Item	Description
1.	ITO Coated Glass Substrate 2" x 0.7 mm, R:9-15 ohm/sq- 1sp,Nominal ITO film thickness: 150 nm	Indium-Tin-Oxide (ITO) coated Glass Plates: Dimension: 2" x 0.7 mm Polish: one side polished Resistivity: 9-15 ohm/sq Nominal ITO film thickness: 150 nm

F. ITO Coated Plastic Film, 0.175mm Thick x 300mm Width x 1 Meter Length

No.	Item	Description	
1.	ITO Coated Plastic Film, 0.175mm Thick x 300mm Width x 1 Meter Length ,14 ohm/sq	Indium-Tin-Oxide (ITO) coated plastic film: Plastic materials: PET Coating method: Magnetron sputtering Dimension: 300 mm width x 1000 mm L x 0.175 mm Thickness Resistivity: 14 ohm/sq	

8. Mica Disks Highest Grade V1

No.	Item	Description
1.	Highest Grade Mica Disks, 10mm diameter pkg/10	Recommended for AFM: Highest quality grade V1 mica, 0.21mm (.0085") thick. Interleaved, in packages of 10. Diameter: 10mm (0.39")
2.	Highest Grade Mica Disks, 20mm diameter pkg/10	Recommended for AFM: Highest quality grade V1 mica, 0.21mm (.0085") thick. Interleaved, in packages of 10. Diameter: 20mm (0.39")
3.	Highest Grade Mica Sheets, 15mm x 15mm (0.59 x 0.59") ,0.15 to 0.177mm (.006007") thick , pkg/10	Highest Grade Mica Sheets, Highest quality Grade V1 Size: 15mm x 15mm (0.59 x 0.59") Thickness: 0.15 to 0.177mm (.006007") Sheets interleaved
4.	Highest Grade Mica Sheets, 15mm x 15mm (0.59 x 0.59") ,0.15 to 0.177mm (.006007") thick , pkg/10 -1	Highest Grade Mica Sheets, Highest quality Grade V1 Size: 15mm x 15mm (0.59 x 0.59") Thickness: 0.15 to 0.177mm (.006007") Sheets interleaved

9. Pyrolytic Graphite Substrate

No.	Item	Description
	Pyrolytic Graphite	Size: 10 mm x 10 mm x 0.50 mm thickness
1	Substrate, C axis	Orientation: C axis textured
'-	Textured, 10x10X0.5	Surface fitness: one side polished
	mm, One Side Polished	Surface roughness: < 65A
	Pyrolytic Graphite	Size: 10 mm x 3 mm x 0.50 mm thickness
2.	Substrate, C axis	Orientation: C axis textured
۷.	Textured, 10x3X0.5 mm,	Surface fitness: one side polished
	One Side Polished	Surface roughness: < 65A
	Pyrolytic Graphite	Size: 10 mm x 5 mm x 0.50 mm thickness
3.	Substrate, C axis	Orientation: C axis textured
J.	Textured, 10x5X0.5 mm,	Surface fitness: one side polished
	One Side Polished	Surface roughness: < 65A
	Pyrolytic Graphite	Size: 2.0" x 2.0" x 0.5 mm thickness
4.	Substrate, C axis	Orientation: C axis textured
٦.	textured, 2"W x 2"L X	Surface fitness: one side polished
	0.5 mm T, 1SP	Surface roughness: < 65A
5.	Pyrolytic Graphite	Size: 3.0" x 3.0" x 0.5 mm thickness
J.	Substrate, C axis	Orientation: C axis textured

	textured, 3"W x 3"L X	Surface fitness: one side polished
	0.5 mm T, 1SP	Surface roughness: < 65A
	Pyrolytic Graphite	Size: 1.0" x 1.0" x 0.4-0.5mm thickness
6.	Substrate, C axis	Orientation: C axis textured
0.	Textures, 1"W x 1"L X	Surface fitness: 1sp
	0.4-0.5mm Thick. 1sp	Surface roughness: < 65A
	Pyrolytic Graphite	Size: 1.0" x 1.0" x 1.0mm thickness
7	Substrate, C axis	Orientation: C axis textured
١.	Textures, 1"W x 1"L X	Surface fitness: 1sp
	1.0mm T 1sp	Surface roughness: < 65A

10. Silicon Nitride (Si3N4) Substrate

No.	Item	Description
1.	Si3N4 Silicon Nitride Ceramic Substrate, 50 x 50 x 1.5 mm, as Hot pressed	Si3N4 ceramic substrate is made by hot press: Purity: > 99.95% Density: > 99.5% Size: 50 mm x 50 mm x 1.50 mm thickness Orientation: N/A Polycrystalline Surface fitness: as hot pressed Surface roughness: < 65A
2.	Si3N4 Silicon Nitride Ceramic Substrate, 50 x 50 x 1.5 mm, as One Side Polisheed	Si3N4 ceramic substrate is made by hot press: Purity: > 99.95% Density: > 99.5% Size: 50 mm x 50 mm x 1.50 mm thickness Orientation: N/A Polycrystalline Surface fitness: One side polished Surface roughness: < 30A
3.	Si3N4 Silicon Nitride Ceramic Substrate, 50 x 50 x 1.50,mm, Tow Sides Polished	Si3N4 ceramic substrate is made by hot press: Purity: > 99.95% Density: > 99.5% Size: 50 mm x 50 mm x 1.50 mm thickness Orientation: N/A Polycrystalline Surface fitness: Two sides Polished Surface roughness: < 30A

11. YSZ (Yittrium stablized ZrO2)

No.	Item	Description
1.	Si3N4 Silicon Nitride Ceramic Substrate, 50 x 50 x 1.5 mm, as Hot pressed	Si3N4 ceramic substrate is made by hot press: Purity: > 99.95% Density: > 99.5% Size: 50 mm x 50 mm x 1.50 mm thickness Orientation: N/A Polycrystalline Surface fitness: as hot pressed Surface roughness: < 65A
2.	Si3N4 Silicon Nitride Ceramic Substrate, 50 x 50 x 1.5 mm, as One Side Polisheed	Si3N4 ceramic substrate is made by hot press: Purity: > 99.95% Density: > 99.5% Size: 50 mm x 50 mm x 1.50 mm thickness Orientation: N/A Polycrystalline Surface fitness: One side polished Surface roughness: < 30A

		Si3N4 ceramic substrate is made by hot press:
3.	Si3N4 Silicon Nitride Ceramic Substrate, 50 x 50 x 1.50,mm, Tow Sides Polished	Purity: > 99.95% Density: > 99.5% Size: 50 mm x 50 mm x 1.50 mm thickness Orientation: N/A Polycrystalline Surface fitness: Two sides Polished Surface roughness: < 30A

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