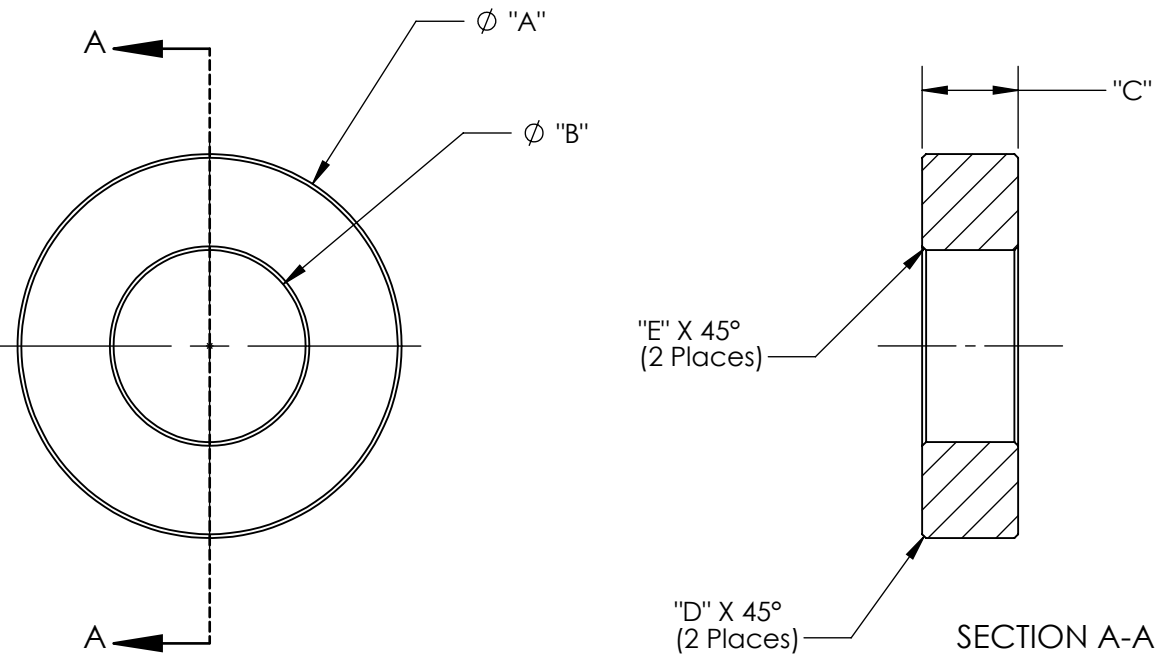


REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	LST	JRL	10-7-16	Initial Revision	X	



"A"	1.500" ± .062"
"B"	0.625" ± .062"
"C"	0.312 ± .031"
"D"	N/A
"E"	N/A

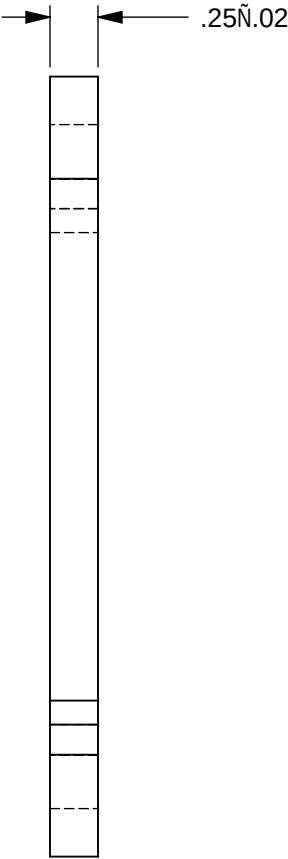
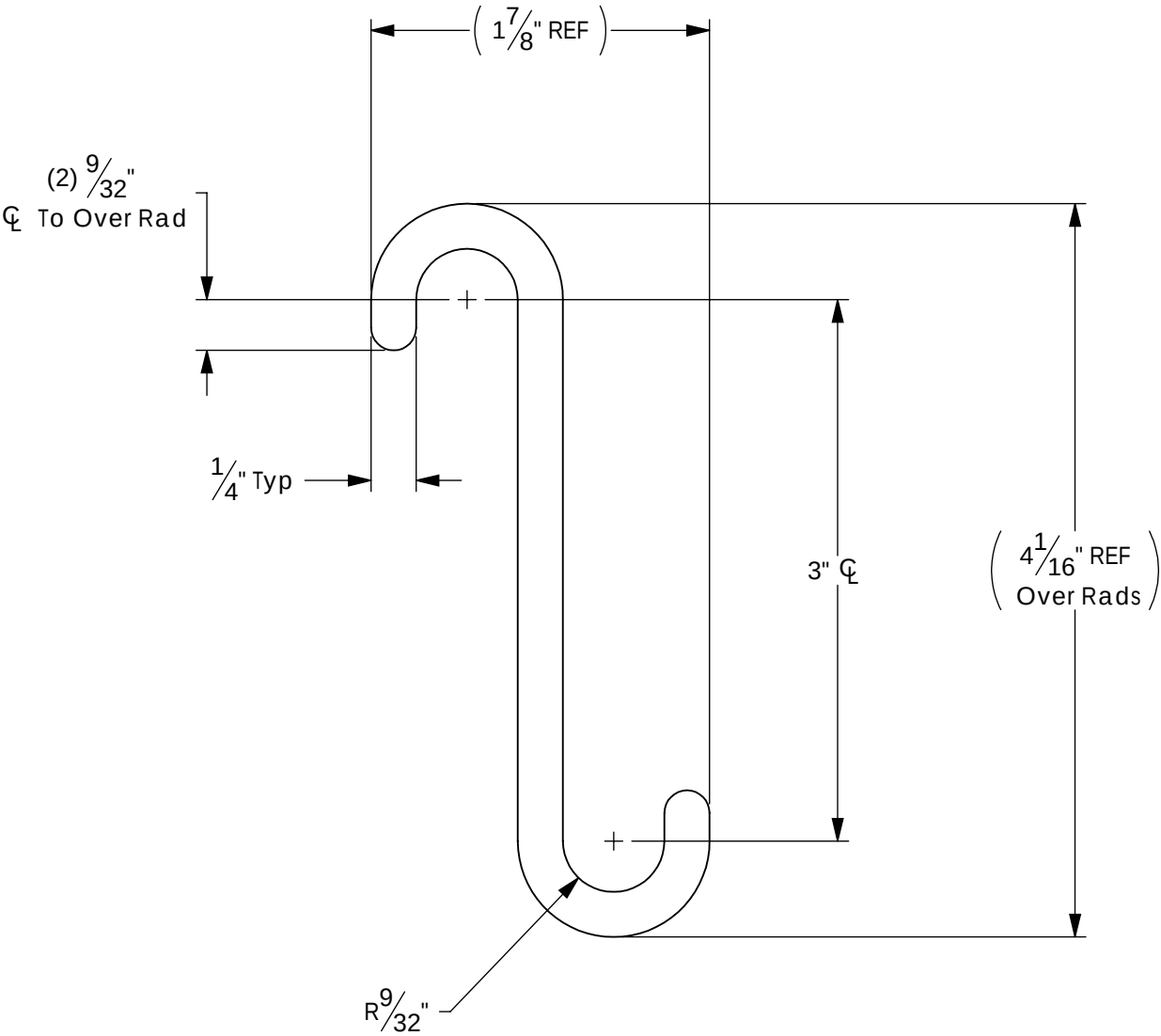
Scale
1:1

Fired Print

Tolerance Unless Otherwise Noted ± 1%, No Less Than .005"	TOLERANCES UNLESS OTHERWISE SPECIFIED: Fraction = ± 1/64 2 PL = ± .01 3 PL = ± .001 4 PL = ± .0001 Angles = ± 1/2°	 Associated Ceramics 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT 2296	
			QUANTITY: ~	MATERIAL: AC-C201 (HT CORDIERITE)
			DIMENSIONS DISPLAYED AS "INCH"	
			DESCRIPTION : Washer	ITEM #: ACT 2296
			HILLIARD & REED ENGINEERING 180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com	B SHEET 1 OF 1

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REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	DTH	MAR	5-3-11	Initial Revision	X	

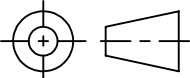


Fired Print

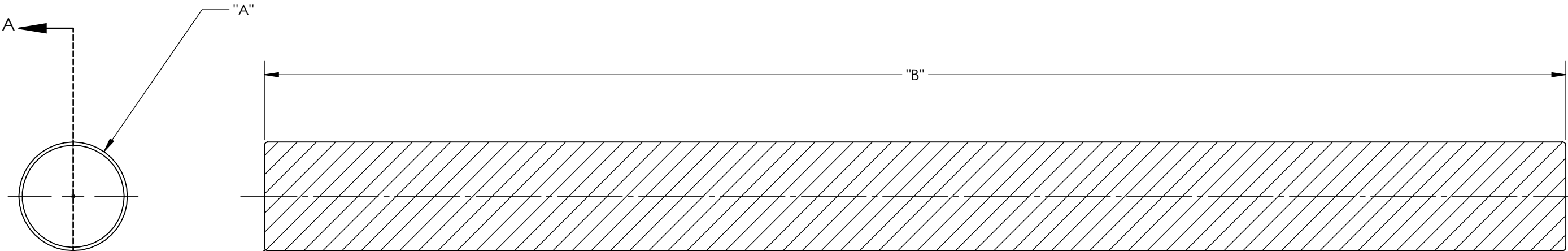
Scale
1:1

SW File Name: ACT#2243 Fired 1101171

Weight = 22.9697 Grams
Volume = 6.2080 Cubic Centimeters

TOLERANCES UNLESS OTHERWISE SPECIFIED: Ñ 2%, No Less Than .020	 associated ceramics and technology, inc. 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT2243	
		QUANTITY: NA	MATERIAL: Alumina "As Needed"
TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE Ñ.005 UNLESS OTHERWISE SPECIFIED		DIMENSIONS DISPLAYED AS "INCH"	
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED		DESCRIPTION : "S" Hook	ITEM #: ACT2243
HILLIARD & REED ENGINEERING		180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com	B SHEET 1 OF 1

REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	LAT	RSL	8/26/16	Initial Revision	X	



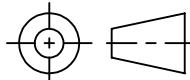
SECTION A-A

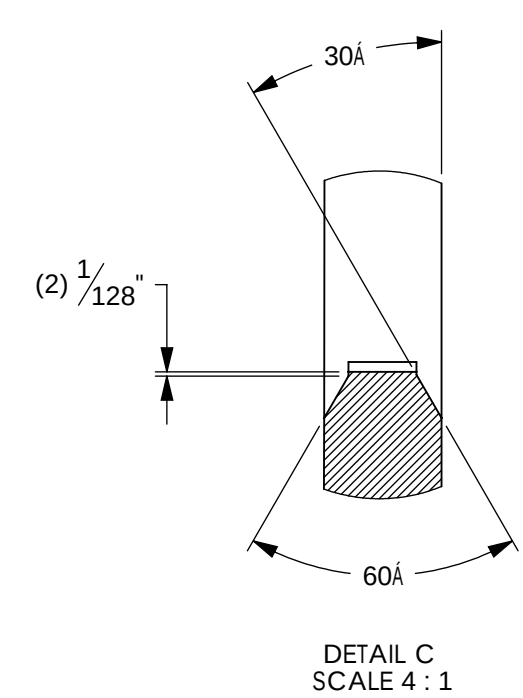
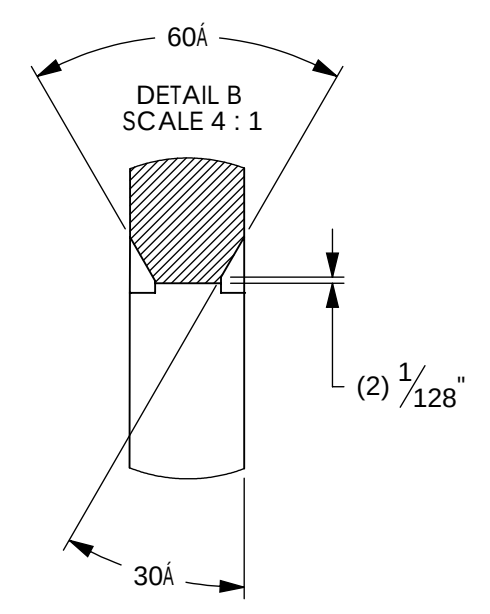
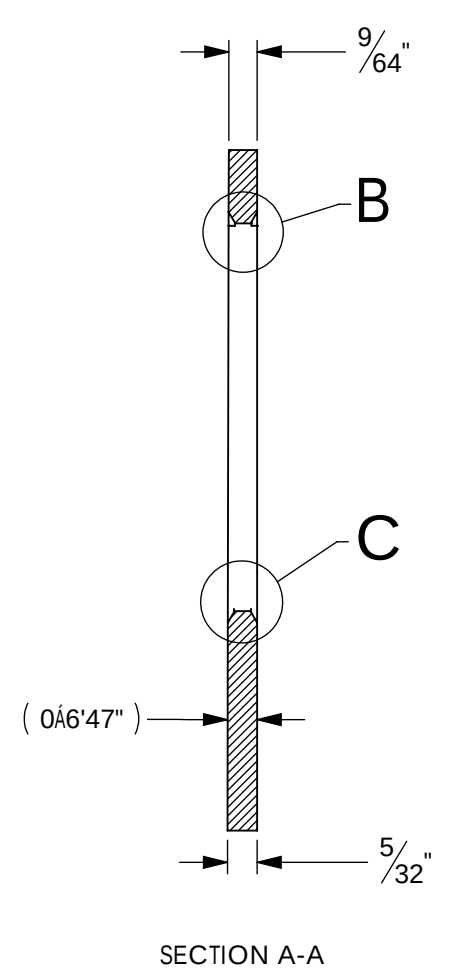
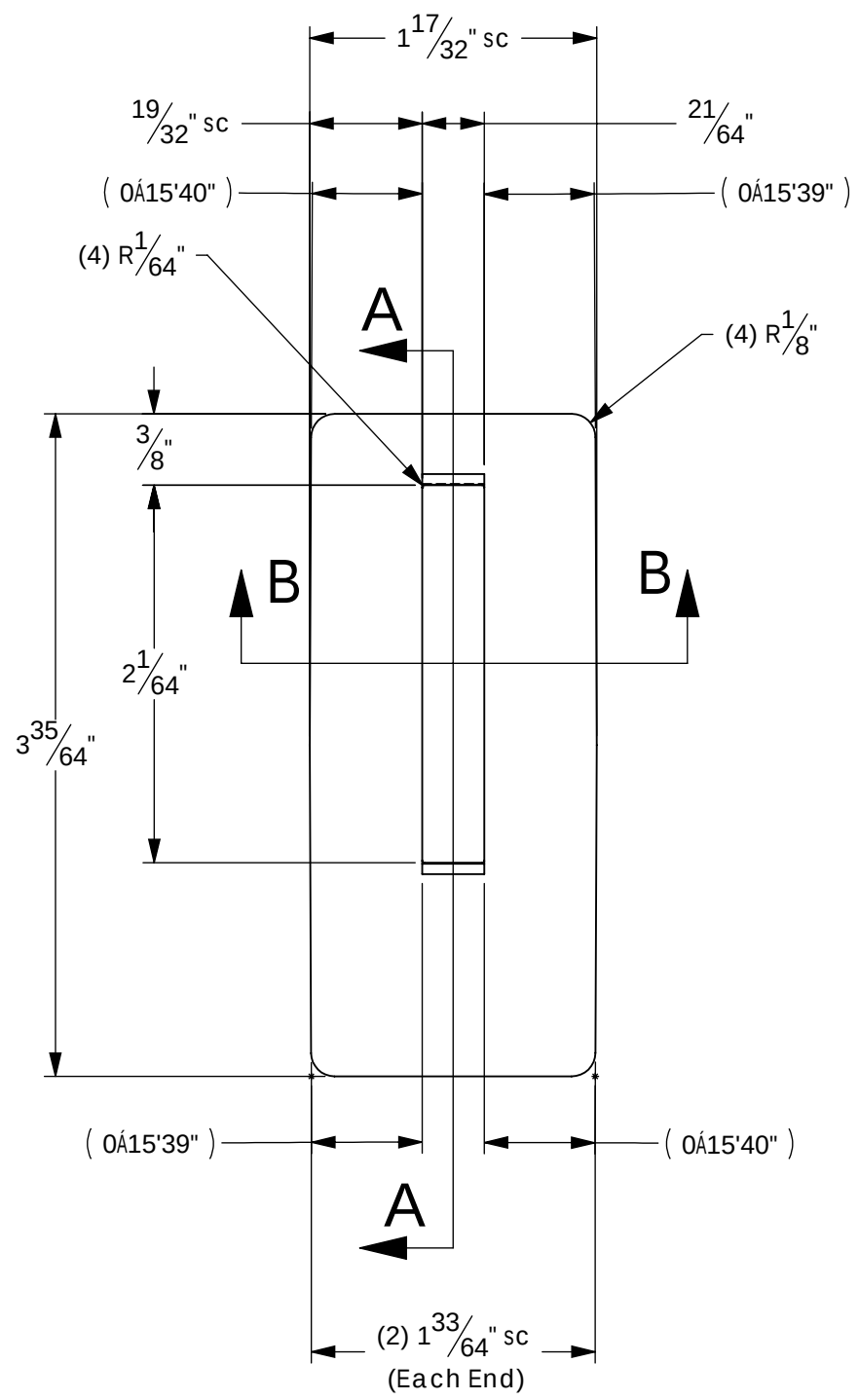
Camber tolerance-
.006/in/in

Master Copy
2502

"A"	.250" ±.010"
"B"	24" ±.125"
"C"	N/A

Scale
1:1

Tolerance Unless Otherwise Noted ± 1%, No Less Than .005"	TOLERANCES UNLESS OTHERWISE SPECIFIED: Fraction = ± 1/64 2 PL = ± .01 3 PL = ± .001 4 PL = ± .0001 Angles = ± 1/2°	 Associated Ceramics 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT 2502			
			QUANTITY:	MATERIAL: 96% Alumina "Fired"		
				DIMENSIONS DISPLAYED AS "INCH"		
			TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE ±.005 UNLESS OTHERWISE SPECIFIED		DESCRIPTION : Rod	ITEM #: ACT2502
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED						
HILLIARD & REED ENGINEERING			180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com		A	SHEET 1 OF 1

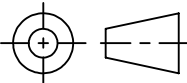


Apprx. Weight = 43.3855 Grams
Approx. Volume = 11.7258 Cubic Centimeters

REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
0	DTH	MAR	5-3-11	Initial Revision	Yes	No
					X	

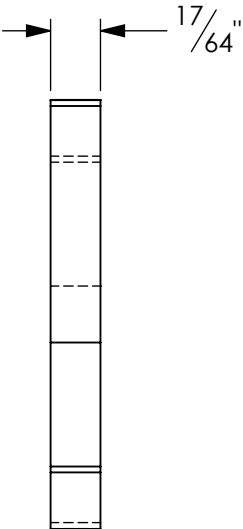
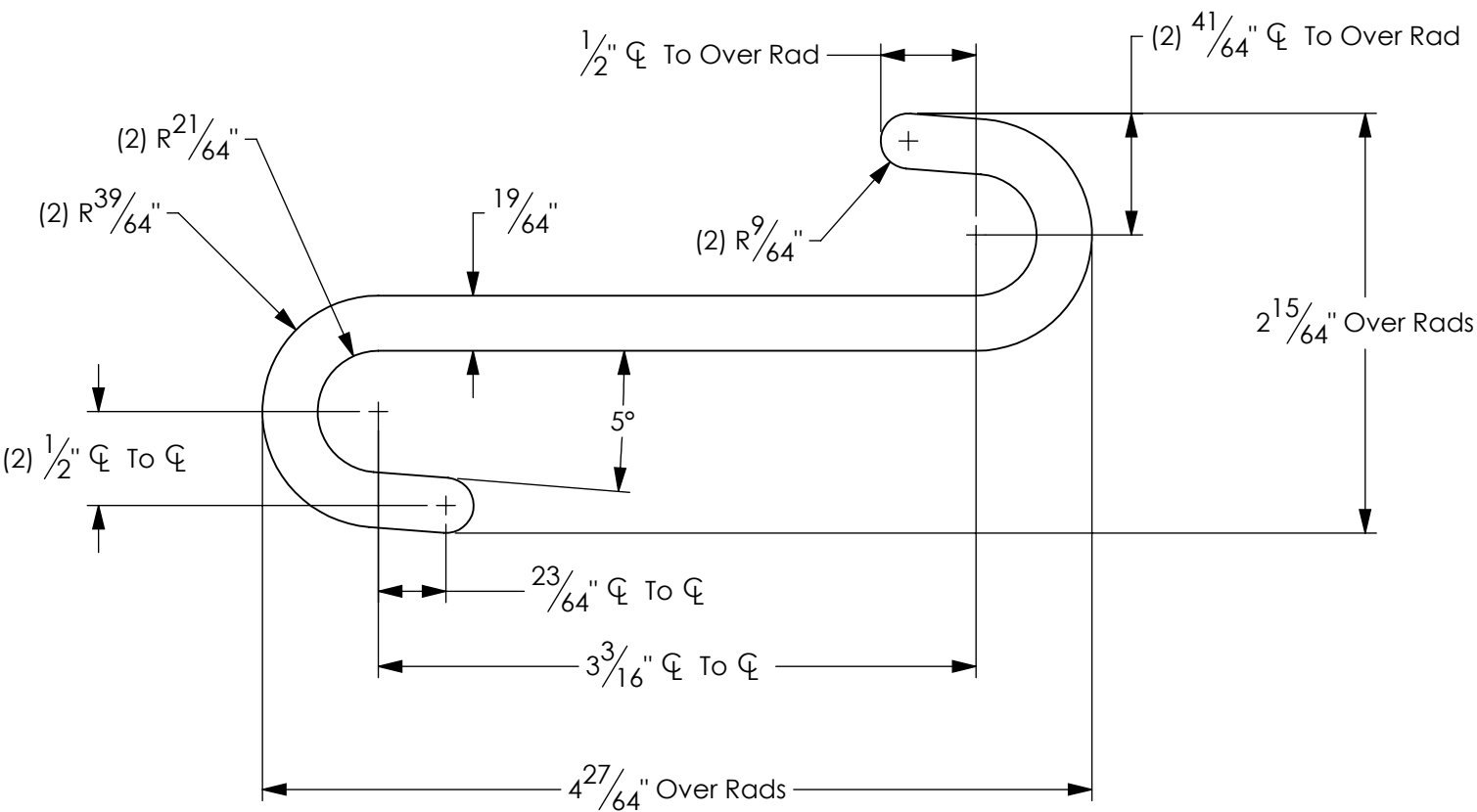
Scale
1:1

Fired Print
~
SW File Name: ACT416 1104201

TOLERANCES UNLESS OTHERWISE SPECIFIED: ± 2%, No Less Than .020	 associated ceramics and technology, inc. 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT416	
		QUANTITY: NA	MATERIAL: Alumina "As Needed"
		DIMENSIONS DISPLAYED AS "INCH"	
TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE ±.005 UNLESS OTHERWISE SPECIFIED		DESCRIPTION : Plate	ITEM #: ACT416
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED			
HILLIARD & REED ENGINEERING		180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com	B SHEET 1 OF 1

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REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	DTH	MAR	8-15-12	Initial Revision	X	

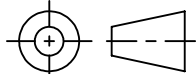


Fired Print

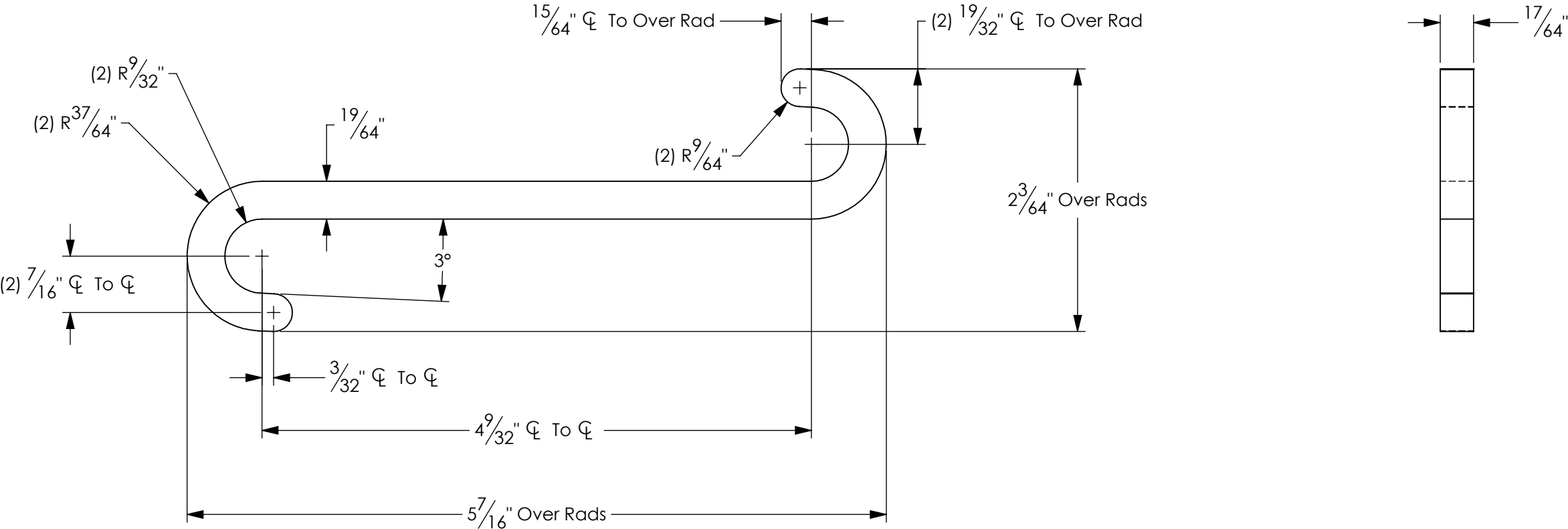
Scale
1:1

SW File Name: ACT419 1208151

Apprx. Weight = 32.8443 Grams
Approx. Volume = 8.8768 Cubic Centimeters

TOLERANCES UNLESS OTHERWISE SPECIFIED: ± 2%, No Less Than .020	 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT419	
		QUANTITY: NA	MATERIAL: Alumina "As Needed"
TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE ±.005 UNLESS OTHERWISE SPECIFIED		DIMENSIONS DISPLAYED AS "INCH"	
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED		DESCRIPTION : Small S Hook	ITEM #: ACT419
HILLIARD & REED ENGINEERING		180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com	B SHEET 1 OF 1

REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	DTH	MAR	8-15-12	Initial Revision	X	

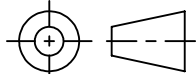


Fired Print

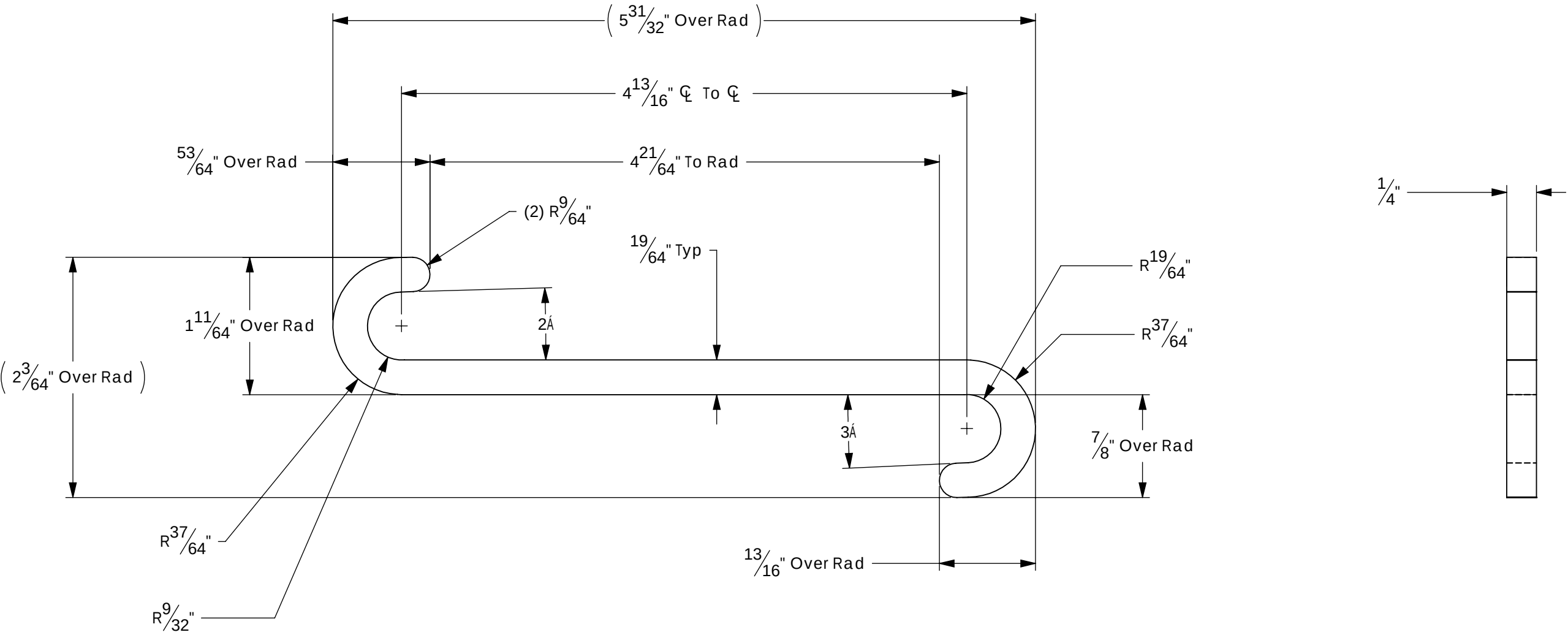
Scale
1:1

SW File Name: ACT421 1208151

Apprx. Weight = 34.4163 Grams
Approx. Volume = 9.3017 Cubic Centimeters

TOLERANCES UNLESS OTHERWISE SPECIFIED: ± 2%, No Less Than .020	 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT421	
		QUANTITY: NA	MATERIAL: Alumina "As Needed"
TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE ±.005 UNLESS OTHERWISE SPECIFIED		DIMENSIONS DISPLAYED AS "INCH"	
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED		DESCRIPTION : Small S Hook	ITEM #: ACT421
HILLIARD & REED ENGINEERING		180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com	B SHEET 1 OF 1

REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	DTH	MAR	5-3-11	Initial Revision	X	

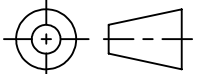


Fired Print

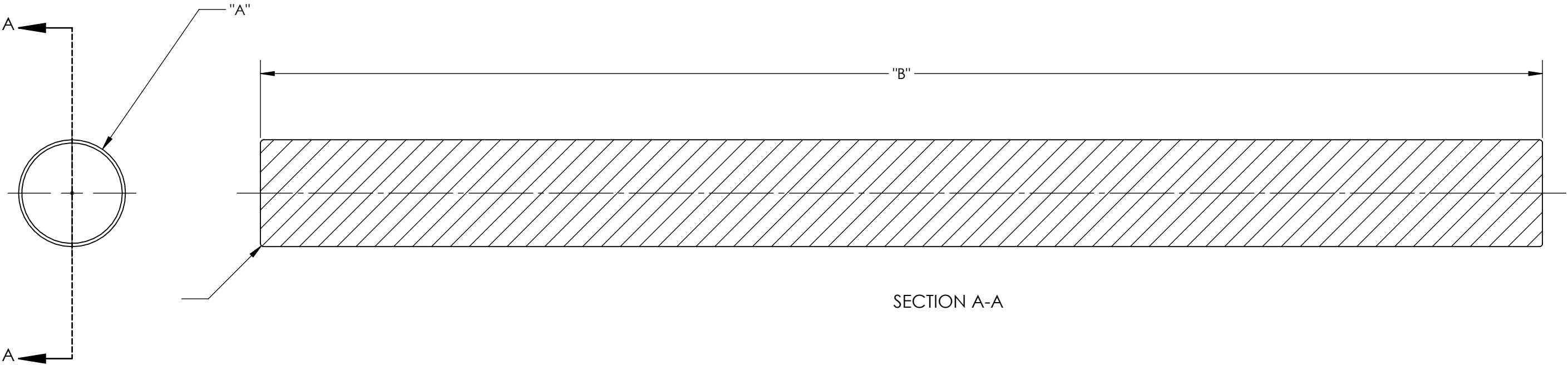
Scale
1:1

SW File Name: ACT422 1104201

Apprx. Weight = 36.1740 Grams
Approx. Volume = 9.7768 Cubic Centimeters

TOLERANCES UNLESS OTHERWISE SPECIFIED: $\pm$ 2%, No Less Than .020		 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050		PART # ACT422	
				QUANTITY: NA	MATERIAL: Alumina "As Needed"
TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE $\pm$.005 UNLESS OTHERWISE SPECIFIED				DIMENSIONS DISPLAYED AS "INCH"	
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED				DESCRIPTION : S Hook	ITEM #: ACT422
HILLIARD & REED ENGINEERING		180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com		B	SHEET 1 OF 1

REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	LST	JRL	10-7-16	Initial Revision	X	



SECTION A-A

CAMBER TOLERANCES = .006"/in/in

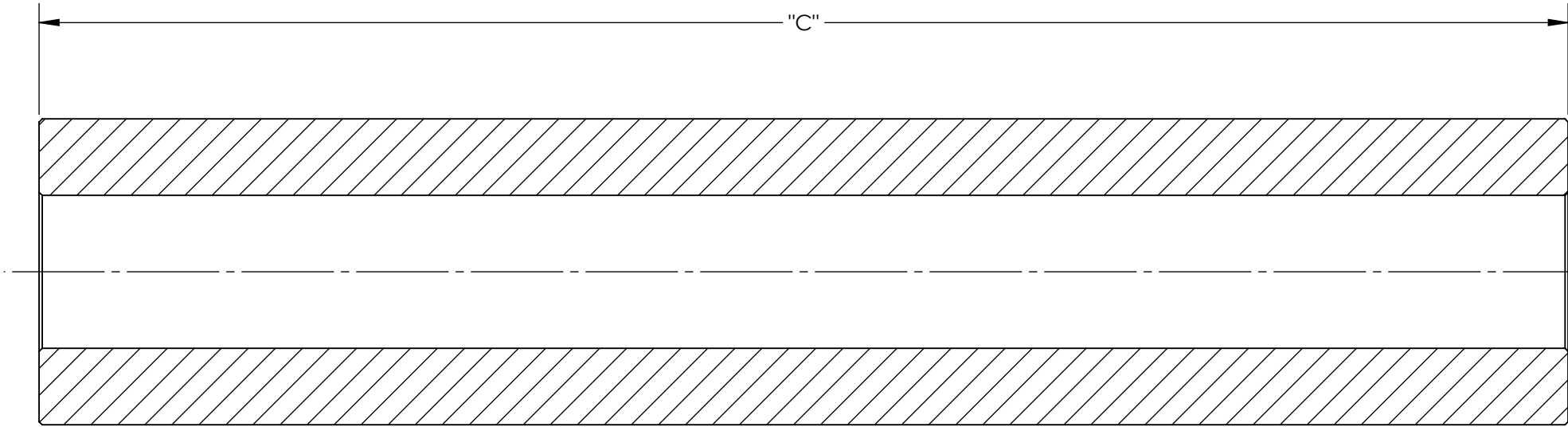
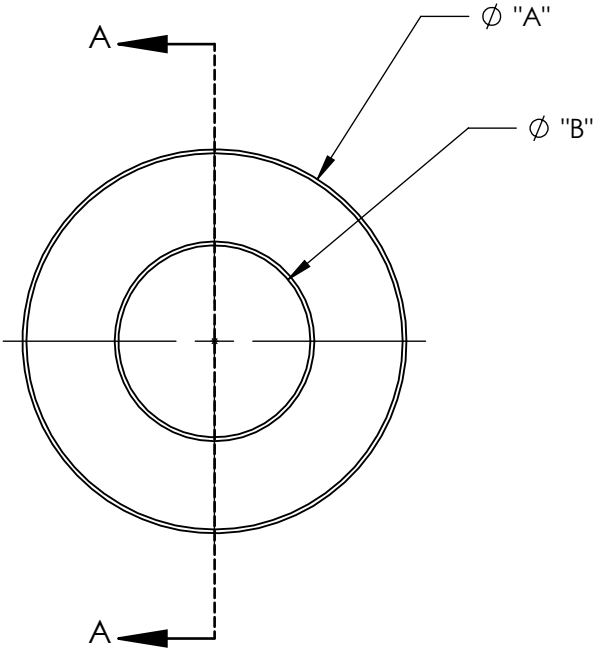
"A"	0.250" ± .010"
"B" P/N 556	5.500" ± .050"
"B" P/N 794	11.625" ± .125"

Scale
1:1

Fired Print

Tolerance Unless Otherwise Noted ± 1%, No Less Than .005"	TOLERANCES UNLESS OTHERWISE SPECIFIED: Fraction = ± 1/64 2 PL = ± .01 3 PL = ± .001 4 PL = ± .0001 Angles = ± 1/2°	 Associated Ceramics 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT 556, 794	
			QUANTITY: ~	MATERIAL: AC-AL960 (96% ALUMINA)
			DIMENSIONS DISPLAYED AS "INCH"	
			DESCRIPTION : Alignment Rod	ITEM #:
			HILLIARD & REED ENGINEERING	

REVISIONS						
Revision	Drawn By	Checked By	Date	DESCRIPTION	Cad Updated	
					Yes	No
0	ILST	JRL	10-7-16	Initial Revision	X	



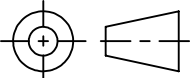
SECTION A-A

CAMBER ALLOWANCE = .006"/in/in

"A"	0.500" +.050/-.000
"B"	0.312" ± .015"
"C" P/N 1049	11.625" ± .125"
"C" P/N 1647	24.000" ± .125"
"C" P/N 2125	36.000" ± .125"

Scale
1:1

Fired Print

Tolerance Unless Otherwise Noted ± 1%, No Less Than .005"	TOLERANCES UNLESS OTHERWISE SPECIFIED: Fraction = ± 1/64 2 PL = ± .01 3 PL = ± .001 4 PL = ± .0001 Angles = ± 1/2°	 Associated Ceramics 400 North Pike Rd. Sarver Pa. 16055 Tel. (724) 353-1585 Fax (724) 353-1050	PART # ACT P/N 1049, 1647, 2125			
			QUANTITY: ~	MATERIAL: AC-AL960 (96% ALUMINA)		
				DIMENSIONS DISPLAYED AS "INCH"		
			TAPPED, DRILLED & C'BORED HOLE LOCATIONS ARE UNDERSTOOD TO BE ±.005 UNLESS OTHERWISE SPECIFIED		DESCRIPTION : TUBE	
REFER TO CAD FILE FOR ALL GEOMETRY THAT IS NOT FULLY DIMENSIONED						
HILLIARD & REED ENGINEERING			180 REED RD. KITTANNING PA. 16201 info@hilliard-reed-engineering.com		B	SHEET 1 OF 1

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