

**SPECIFICATION SHEET**

**JFW MODEL 50DR-143**

**DUAL ROTARY ATTENUATOR**

JFW Industries, Inc.  
Phone: 317-887-1340  
sales@jfwindustries.com  
www.jfwindustries.com

Frequency Range DC-3000 MHz

Impedance 50 Ohms nominal

Attenuation Range 0-80 dB in 1 dB steps

VSWR 1.7:1 maximum  
1.5:1 typical

Insertion Loss 1.5 dB maximum  
0.9 dB typical @ 3000 MHz

Attenuation Accuracy ± 0.5 dB (1 dB steps)  
± 0.7 dB or 4% (10 dB steps)

RF Input Power 2 Watts average  
1000 Watts peak

Direction of Rotation Attenuation increases in a Clockwise  
direction

Indexing 30 degrees with stops at  
Minimum and maximum

RF Connector N or SMA female

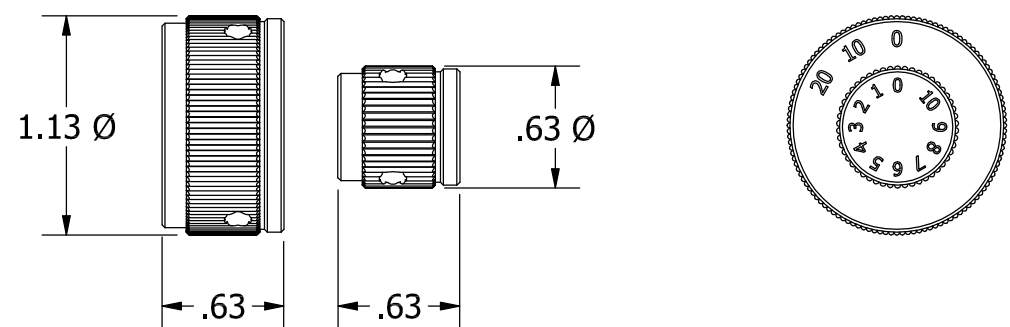
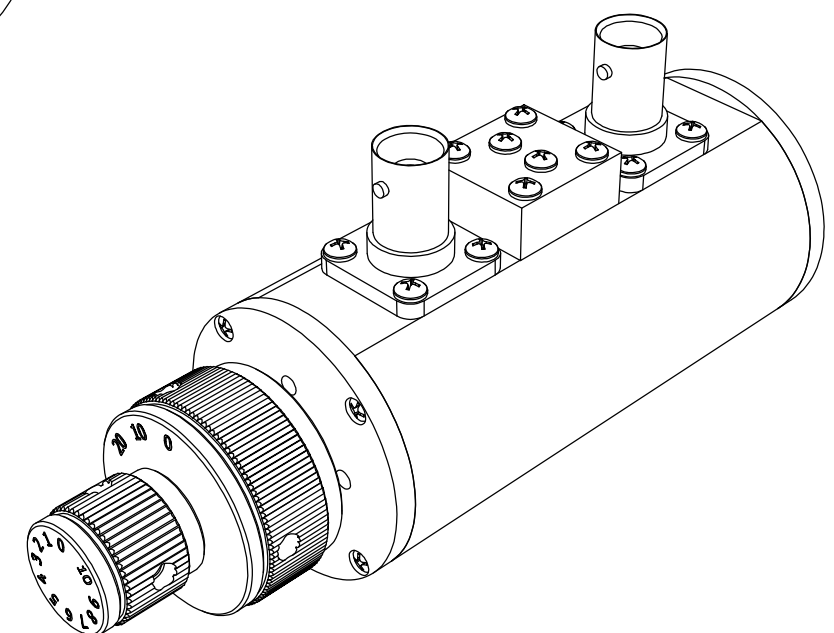
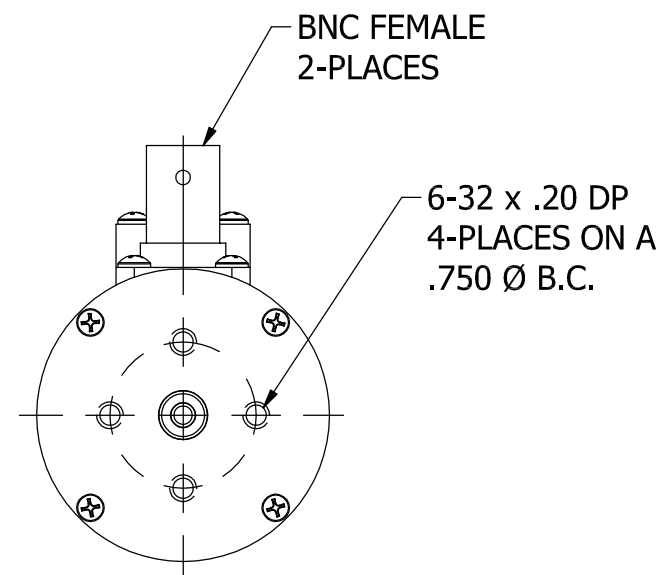
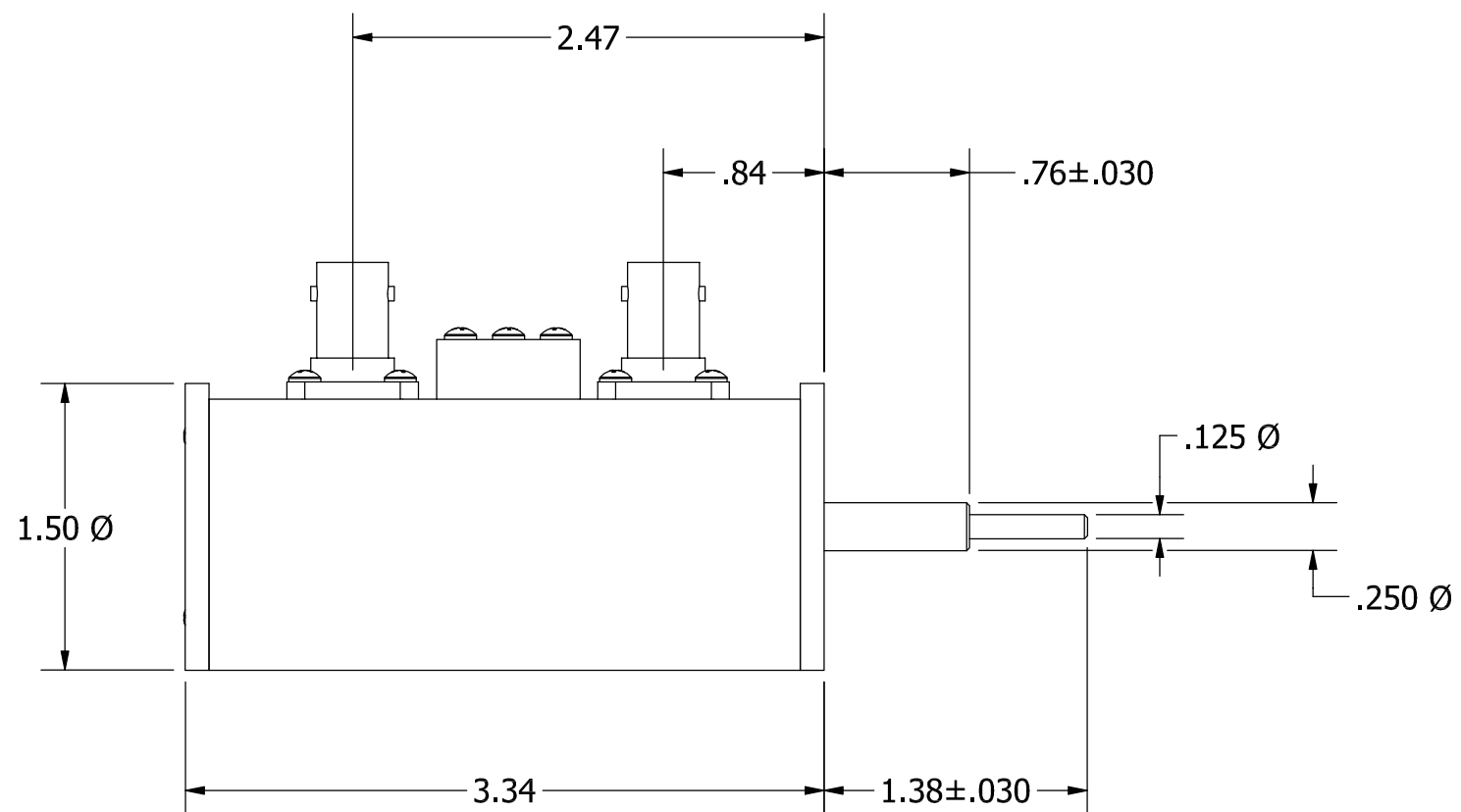
Operating Temperature Range -20°C to +85°C

Lifetime 500,000 attenuation steps (each knob)

Knob/Panel Mounting Drawing 092-8435-02


Outline Drawings 092-440-03 (50DR-143 SMA)  
092-327-03 (50DR-143 N)

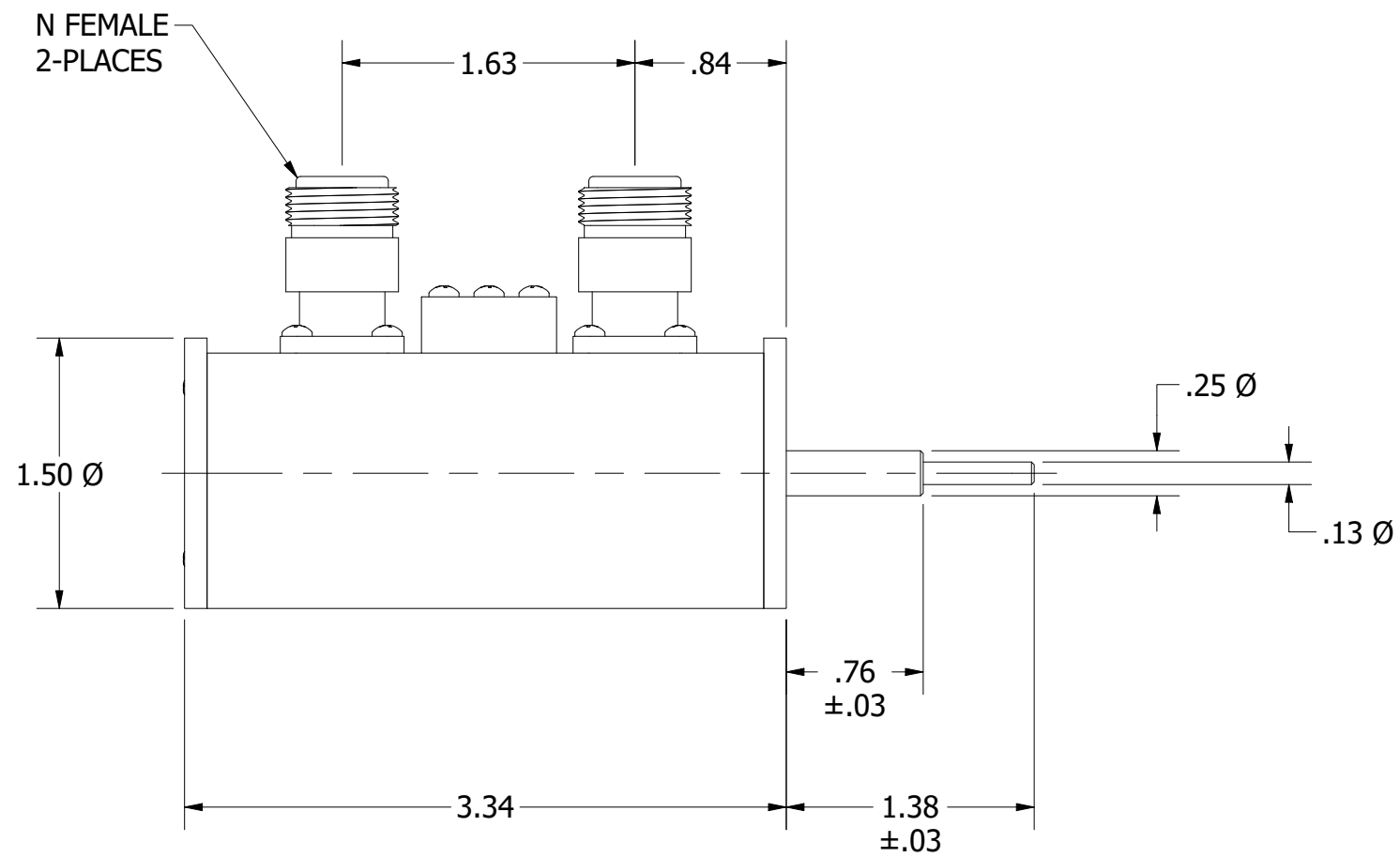
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	03/30/2016		TRS 03/30/2016				
26913	08/04/2016	A	TRS 08/04/2016				
28157	10/05/2017	B	TRS 10/05/2017				



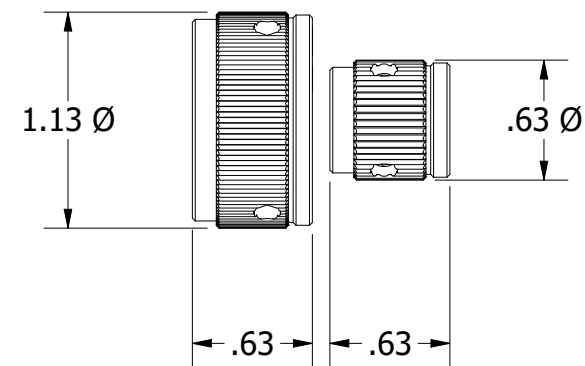
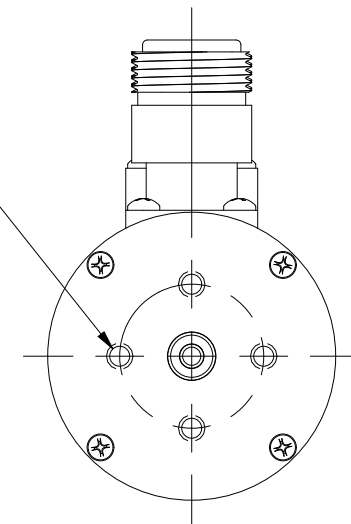
**KNOB DETAIL**

REV	ECN	DATE	BY	APPR
-	ISSUED	4-9-08	TEZ	TRS
A	24444	9-17-15	JZ	TEZ

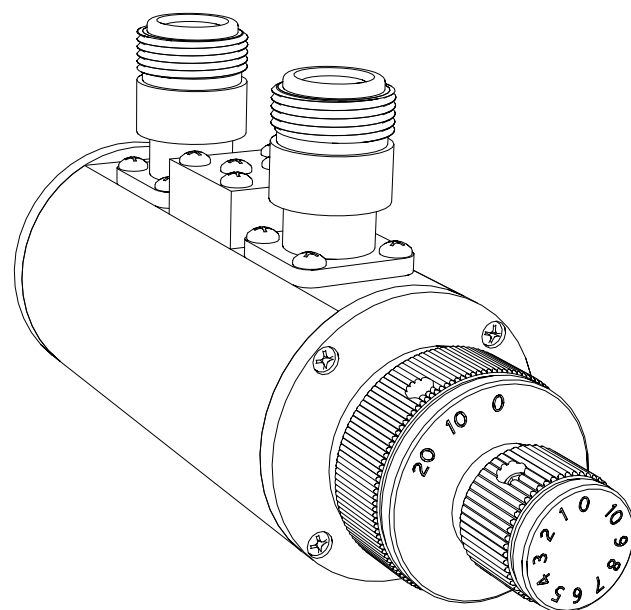
		<b>JFW INDUSTRIES, INC.</b>	
		<a href="http://www.jfwindustries.com">www.jfwindustries.com</a>	
		PH: 317-887-1340	
MATERIAL		ALUMINUM ALLOY	PROPRIETARY INFORMATION
FINISH		CHEMFILM TCP	ALL SURFACES ARE TO BE FREE OF BURRS, PITS & SCRATCHES
MODEL		50DR-XXX	TOLERANCES .XX±.010 .XXX±.005 XX°±.5°
DESCRIPTION		0-30dB ROTARY ATTEN.	DWG #
			092-5760



6-32 x .20 DP  
4-PLACES ON  
A .750 Ø B.C.



**Knob Detail**



REV	ECN	DATE	BY	APPR
-	ISSUED	9-22-10	TEZ	TEZ
A	24444	9-18-19	GM	TEZ



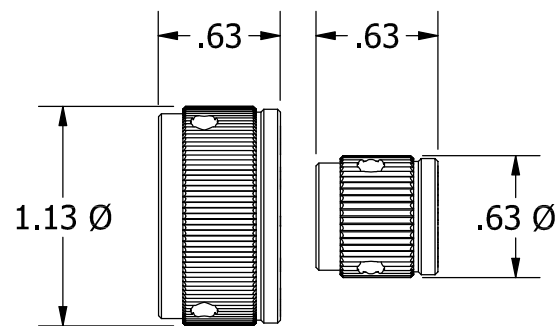
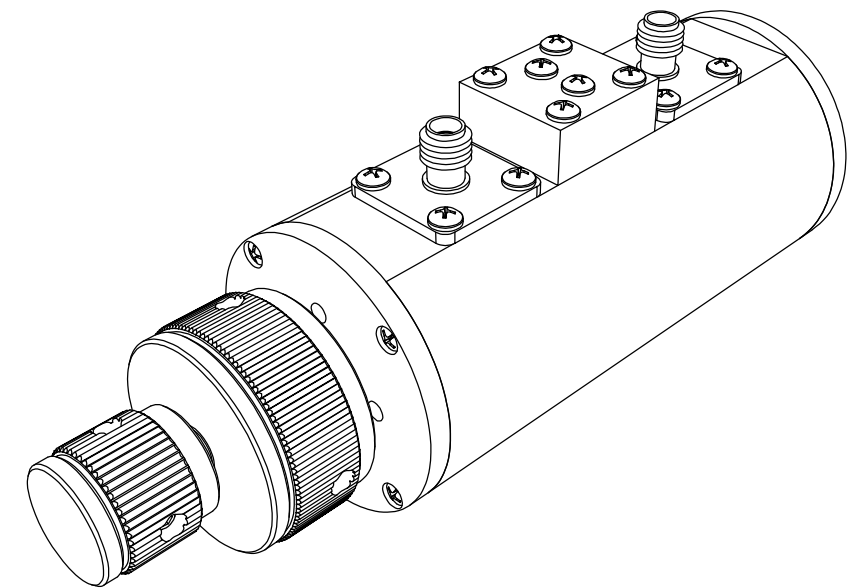
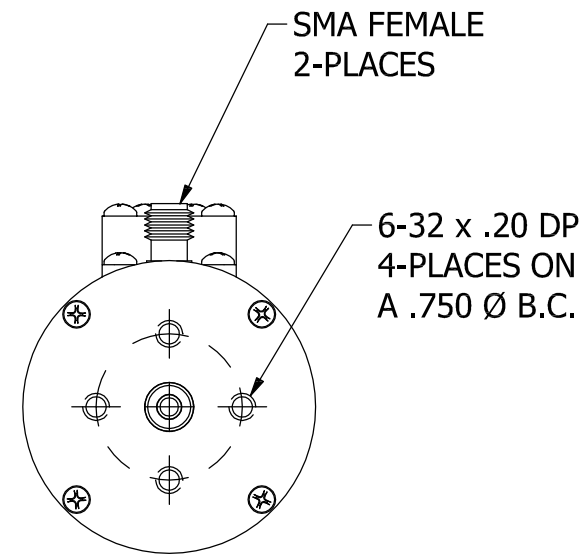
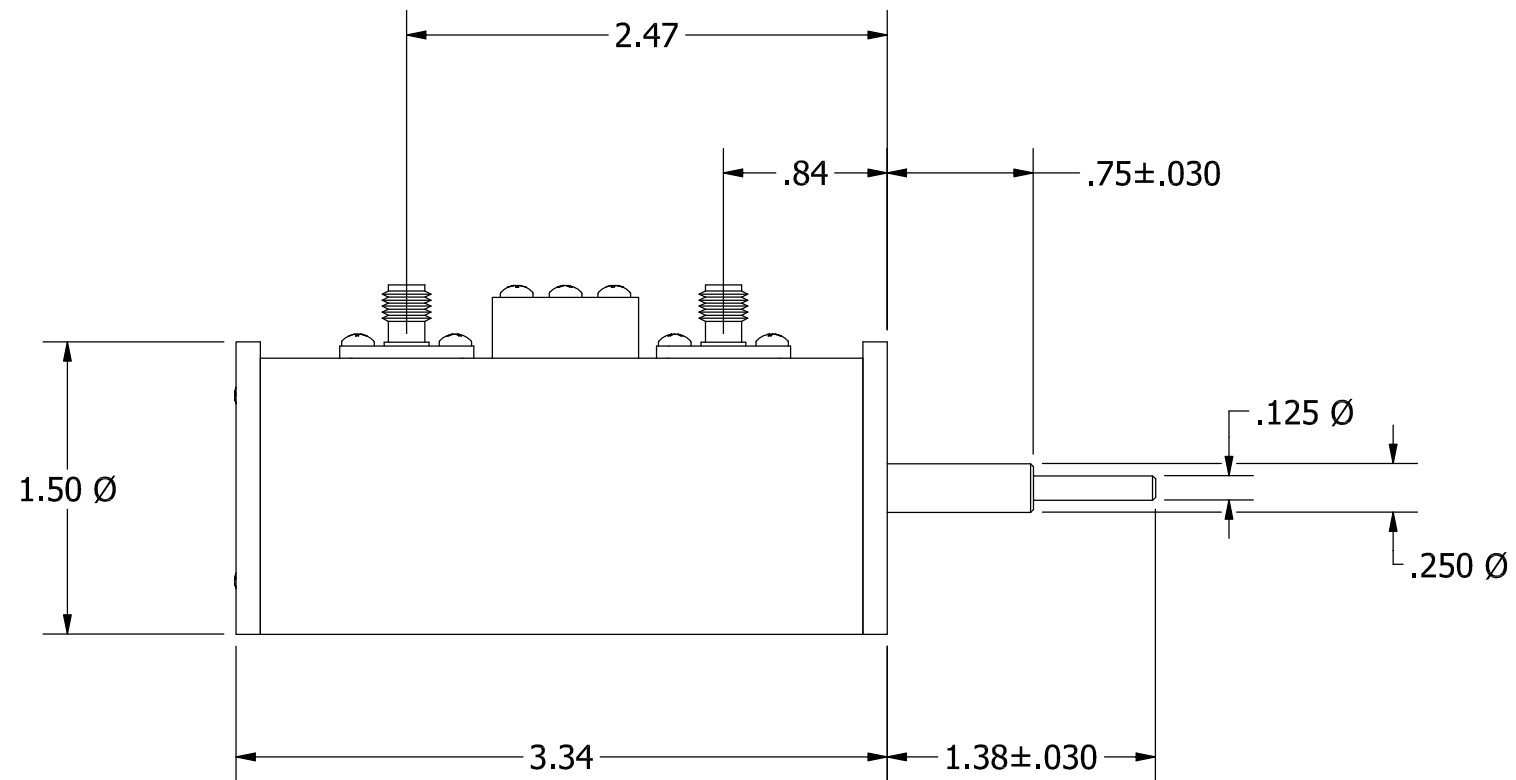
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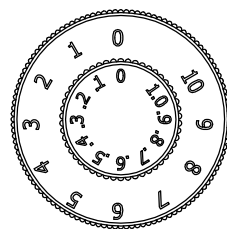
PH: 317-887-1340

MATERIAL	ALUMINUM ALLOY	PROPRIETARY INFORMATION
FINISH	CHEMFILM TCP	ALL SURFACES ARE TO BE FREE OF BURRS, PITS & SCRATCHES
MODEL	50DR-XXX	TOLERANCES
DESCRIPTION	ROTARY ATTENUATOR	.XX±.010 .XXX±.005 XX°±.5°
		DWG #
		092-6720

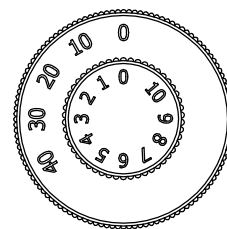
SCALE FULL



**KNOB DETAIL**



**0-11 x 0.1 MODELS**



**0-50 x 1 MODELS**

REV	ECN	DATE	BY	APPR
-	ISSUED	11-2-92	TEZ	FDW
A	3934	4-15-93	TEZ	FDW
B	6166	1-19-00	TEZ	FDW
C	6594	1-24-01	CDJ	TEZ
D	6750	6-11-01	CDJ	TEZ
E	12635	4-20-06	ETW	TEZ
F	23329	10-3-13	JZ	TEZ
G	24444	11-24-15	JZ	TEZ

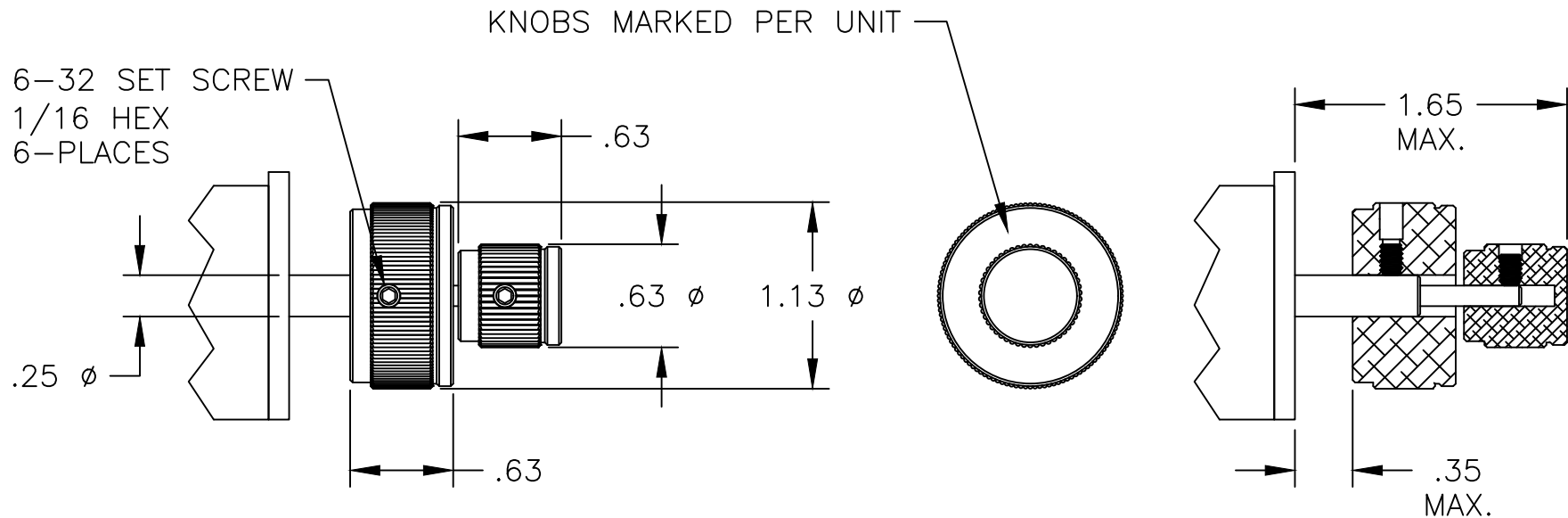


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MATERIAL	ALUMINUM ALLOY	PROPRIETARY INFORMATION
FINISH	CHEMFILM TCP	ALL SURFACES ARE TO BE FREE OF BURRS, PITS & SCRATCHES
MODEL	50DR-XXX	SCALE FULL
DESCRIPTION	ROTARY ATTENUATOR	TOLERANCES .XX±.010 .XXX±.005 XX°±.5°
		DWG # 092-1919



NOTE: PANEL THICKNESS IN ADDITION TO SCREW HEAD MUST NOT EXCEED .35 INCH MAXIMUM.

SET SCREWS FOR SMALL KNOB: 6-32 x 3/16 WITH 1/16 HEX HEAD (JFW #027-318)

SET SCREWS FOR LARGE KNOB: 6-32 x 5/16 WITH 1/16 HEX HEAD (JFW #027-319)

REV	ECN	DATE	BY	APPR				
-	ISSUED	9-24-2015	JZ	TEZ	 <b>JFW INDUSTRIES, INC.</b> www.jfwindustries.com PH: 317-887-1340			
A	28025	8-14-2017	DTS	TRS				
					MATERIAL	ALUMINUM ALLOY	PROPRIETARY INFORMATION	
					FINISH	BLACK ANODIZE		ALL SURFACES ARE TO BE FREE OF BURRS, PITS, & SCRATCHES
					MODEL	132-002 & 132-003	SCALE FULL	TOLERANCES
					DESCRIPTION	ROTOR KNOB MOUNTING		.XX±.010 .XXX±.005 XX±.5'
							DWG #	092-8435-02