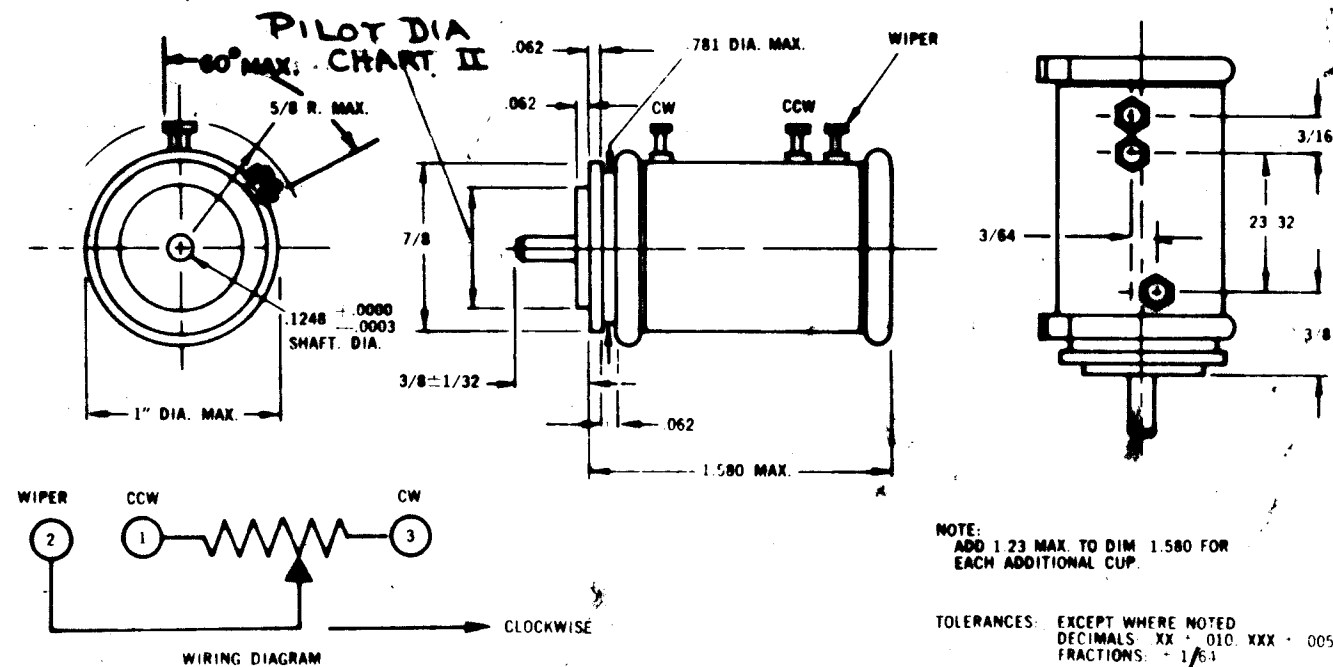


RESISTANCE (OHMS)	CHART I MAX. RESOLUTION (PERCENT)
100	0.060
200	0.050
500	0.036
1,000	0.030
2,000	0.025
5,000	0.019
10,000	0.019
20,000	0.019
50,000	0.012
100,000	0.011
200,000	0.008
500,000	0.007

CODE	CHART II PILOT DIA.
*1	.625 $\pm$ .000 -.001 STANDARD
2	.750 $\pm$ .000 -.001

\*NOTE:  
USE STANDARD PILOT DIA. WHERE POSSIBLE.



NOTE:  
ADD 1.23 MAX. TO DIM 1.580 FOR EACH ADDITIONAL CUP.

TOLERANCES: EXCEPT WHERE NOTED  
DECIMALS: .XX ± .010, .XXX ± .005  
FRACTIONS: 1/64

NOTE: ALPHA IDENTIFICATION SYMBOLS  
NEED NOT APPEAR ON MARKING.

NOTES

TSTE 10K		
QTY/UNIT	MODEL USED ON	ASSY. NO.
#	5401-395 (3550 S-1 TYPE)	
THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.		

A  
RV118

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	5/24/65	11	Ø		
A	CHG'D POSITION OF CLAMP, ADDED NOTE & PT # TO S401 CODE.	7-27-66	16636	RME		

Specifications

<b>ELECTRICAL CHARACTERISTICS</b>		
Resistance Range	100-500K Ohms	Mechanical Life <sup>①</sup>
Resistance Tolerance*	±3% standard, closer tolerances available	100,000 cycles (2,000,000 shaft revolutions)
Absolute Minimum Resistance	1Ω or 0.1%, whichever is greater	Dielectric Strength
Noise during adjustment*	100% ENR Maximum	MIL-STD-202B, Method 301
Insulation Resistance, 500VDC*	1000 megohms minimum	Room Conditions
Resolution	0.06 to 0.008%	80,000 feet (0.8" Hg.)
Electrical Rotation*	3600° (+10°/-0°)	400 VAC
Linearity (Independent)	±0.20% standard	<b>PHYSICAL CHARACTERISTICS</b>
		Caging
		5 cups maximum
		Shaft Torque
		0.4 oz.-in. maximum (starting)
		0.3 oz. in. maximum (running)
<b>ENVIRONMENTAL CHARACTERISTICS</b>		<b>SHAFT BEARING: BALL BEARING</b>
Power Ratings:		
70°C (158°F) Ambient	2.5 watt	
125°C (257°F) Ambient	0 watt	
Operating Temperature Range	-65 to +125°C (-85 to +257°F)	Markings*
Temperature Coefficient:		Manufacturer's name, wiring diagram, date code, resistance, and manufacturer's part number & TMC PART NO.
Of Resistance Wire	Maximum 0.002%/°C	
Humidity	Standard—MIL-STD-202B, Method 103 (Steady State)	
Vibration	MIL-STD-202B, Method 204, 20G	Terminals
Contact Bounce	0.1 millisecond Maximum	Gold Plated Solder Turrets
Wiper Shift, Maximum	0.2%	Mechanical Rotation
Shock	Exceeds MIL-STD-202B, Method 202, 100G	360° (+10°/-0°)
Contact Bounce and Wiper Shift	Same as Vibration	Stop Strength
Sand and Dust	MIL-E-5272C	88 oz./in.
Fungus	Materials meet MIL-E-5272C	<b>Mechanical Characteristics</b>
Load Life	1000 hours per MIL-R-19	Shaft Runout
Resistance Shift, maximum	2.0%	.001 in. T.I.R.
		Shaft End Play
		.003 in. T.I.R.
		Shaft Radial Play
		.002 in. T.I.R.
		Pilot Diameter Runout
		.0015 in. T.I.R.
		Lateral Runout
		.003 in. T.I.R.

TMC PART NUMBER TO BE IN FOLLOWING FORM

RV 118-1 - 103

BASIC PART NO. PILOT DIA. RESISTANCE 1st 2 DIGITS  
CHART II SIG. LAST DIGIT SIGNIFIES NO. OF  
ZEROS

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
BUDETTI LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE RESISTOR, VARIABLE, PRECISION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN	DATE
			5/25/65	FINAL APPROVAL
			5/25/65	
DECIMALS			ELECT. DES.	
.X ± .05			DATE	
.XX ± .01			RV118	
.XXX ± .005			A	
FRACTIONS			DATE	
± 1/64			5/25/65	
ANGLES			SHEET	
± 0° 30'				