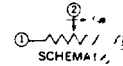


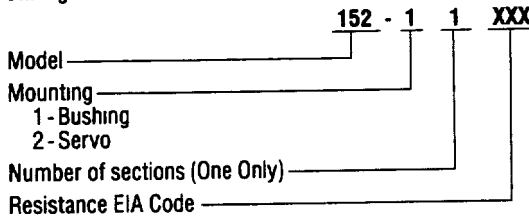
OPTIONAL SHAFT

TOLERANCES UNLESS OTHERWISE NOTED,  
DECIMALS ± .005, ANGLES ± 2°  
BASIC DIMENSIONS ARE IN INCHES,  
MILLIMETER DIMENSIONS IN PARENTHESES



**HOW TO ORDER THE MODEL 152, 157, 158 OR 159**

Models can be ordered from this specification sheet by stating:



EIA Code	Standard Resistance	152	157	158	159
		Resolution %	Resolution %	Resolution %	Resolution %
050	5Ω	0.681			
100	10Ω	0.570			
200	20Ω	0.447			
500	50Ω	0.402			
101	100Ω	0.309			
201	200Ω	0.254			
501	500Ω	0.214		∞	∞
102	1KΩ	0.210	∞	∞	∞
202	2KΩ	0.184	∞	∞	∞
502	5KΩ	0.130	∞	∞	∞
103	10KΩ	0.101	∞	∞	∞
203	20KΩ	0.081	∞	∞	∞
503	50KΩ		∞	∞	∞
104	100KΩ		∞	∞	∞
204	200KΩ			∞	∞
504	500KΩ				∞
105	1MΩ				∞
205	2MΩ				∞

	152, 157, 158, 159			
<b>Materials</b>				
Housing	Aluminum, Anodized			
Bushing	Integral with Housing			
Lids Rear	Thermoset Plastic			
Front	—			
Shaft	Stainless Steel			
Terminals	Brass, Solderable			
Bushing Mount Hardware				
Lockwasher, Internal Tooth	Steel, Nickel Plated			
Panel Nut	Brass, Nickel Plated			
<b>Electrical Specifications</b>				
Dielectric Withstanding	1,000v RMS, 60Hz			
Insulation Resistance	100MΩ, 500v dc			
Peak Noise	100Ω ENR (M152)			
Output Smoothness/CRV	0.1% (M157, M158 & M159)			
<b>Environmental Specifications</b>				
Moisture Resistant	Yes			
Vibration	15g, 10 to 2,000Hz			
Shock	50g			
Salt Spray	96 Hours			
Load Life	900 Hours			
Sealing	Available			
<b>Mechanical Specifications</b>	152, 158, 159		157	
Bearing Type	Ball Sleeve		Ball Sleeve	
Servo Mount				
Bushing Mount				
Operating Torque oz-in	Starting	Running	Starting	Running
Servo 1 Section	0.25	0.15	0.25	0.15
Bushing 1 Section	0.30	0.25	0.30	0.25
Each Add Section				
Mechanical Tolerance in Max	Bushing	Servo	Bushing	Servo
Shaft Runout (TIR/in)	0.002	0.002	0.002	0.002
Pilot dia. Runout (TIR)		0.002		0.002
Lateral Runout (TIR)	0.005	0.002	0.005	0.002
Shaft End Play	0.006	0.005	0.010	0.005
Shaft Radial Play	0.003	0.002	0.003	0.002



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