# C2699 Geared Potentiometer Assembly Model Selection

**MODEL SERIES:**
- C2699

**SUFFIX IDENTIFIER:**
- C2699 = Geared potentiometer assembly, heavy duty, multi-turn.

**AAA = POTENTIOMETER VALUE:**
- 102 = 1000 ohms.
- 103 = 10000 ohms.
- 502 = 5000 ohms.
- XXX = Special factory assigned.

**BBB = INTERNAL GEAR RATIO AND REDUCTION STAGES:**
- 085 = 0.0625 to 1, double
- 169 = 0.1111 to 1, double
- 170 = 0.1428 to 1, double
- 004 = 0.2500 to 1, single
- 009 = 0.5000 to 1, single
- 014 = 1.0000 to 1, single
- 019 = 2.0000 to 1, single
- 024 = 4.0000 to 1, single
- 507 = 6.0000 to 1, double
- 484 = 7.5000 to 1, double
- 561 = 9.0000 to 1, double
- 564 = 12.0000 to 1, double
- 646 = 20.0000 to 1, double
- 088 = 0.0833 to 1, double
- 090 = 0.1250 to 1, double
- 171 = 0.1667 to 1, double
- 007 = 0.3333 to 1, single
- 010 = 0.6667 to 1, single
- 018 = 1.5000 to 1, single
- 021 = 3.0000 to 1, single
- 025 = 5.0000 to 1, single
- 534 = 7.0000 to 1, single
- 510 = 8.0000 to 1, double
- 511 = 10.0000 to 1, double
- 565 = 15.0000 to 1, double
- 673 = 25.0000 to 1, double

**C = INTERNAL GEAR TYPE AND NUMBER OF REDUCTION STAGES:**
- S = Standard spur gears, single
- D = Standard spur gears, double
- R = Zero backlash gears, single
- C = Zero backlash gears, double

**DD = INPUT DRIVE SHAFT DESCRIPTION:**
- 12 = .375 inch diameter, no key or flat.
- 16 = .500 inch diameter, with 1/8 X 1/2 woodruff key.
- XX = Special, factory assigned number.

**E = MOUNTING STYLE AND CONFIGURATION:**
- 0 = Foot mount with conduit connection.
- 1 = Flange mount with conduit connection.
- 2 = Foot mount with circular connector.
- 3 = Flange mount with circular connector.

*Specifications continued on next page.*
F = FACTORY ASSIGNED OPTION IDENTIFIER:
   0 = Standard, no options supplied.
   X = Special features, factory assigned number.

NOTES:
1) Additional potentiometer resistance values for the potentiometer up to 100,000 ohms are available upon request. The required value must be specified at the time of order placement. Datatran will modify the potentiometer value identifier (suffix AAA) in the part number to show the change. Depending on the order quantity and stock availability orders with special potentiometer values may be subject to extra charge.

2) The gear ratios listed define the number of turns of the input drive shaft required to produce one complete revolution of the potentiometer. Full electrical travel of the potentiometer will be obtained with .94 times the values shown.

3) This geared potentiometer is available with over 700 gear ratios. The required value must be specified at the time of order placement. Datatran will modify the gear ratio value identifier (suffix BBB) in the part number to show the change. Depending on the order quantity and stock availability, orders with special gear ratio values may be subject to extra charge. Interested users should contact Datatran's Sales Department for a list of the currently available gear ratios.

4) This geared potentiometer is available with internally mounted model series B2705 solid state limit switches. Two limit outputs are supplied with this option. Both outputs are open collector transistors that are arranged to sink current when the potentiometer wiper position exceeds the preset points. One output will turn on when the wiper is above the center position and beyond the first setpoint, the other output will turn on when the wiper is below the center position and beyond the second setpoint. The limit switch assembly must be ordered separately. When the limit switch is ordered with a potentiometer, Datatran will mount the assembly inside the potentiometer enclosure at no additional charge, if requested at the time of order placement.

5) All of the geared potentiometers are supplied without internal stops for continuous rotation.

6) The zero backlash gear option (suffix C) is not available with all gear ratios. Contact Datatran's Sales Department for details.