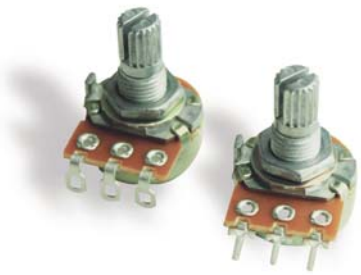
# Model P160
# 16mm Rotary Potentiometer
# Conductive Plastic Element
# 100,000 Cycle Life
# Metal shaft / Bushing
# Multi – Ganged available
# RoHS Compliant



## MODEL STYLES

| | |
|---|---|
| Side Adjust , Solder Lugs | P160KNP |
| Side Adjust , PC pins | P160KN |
| Side Adjust , PC Pins, Long pins | P160KN2 |
| Rear Adjust, PC pins | P160KNPD |

## ELECTRICAL[1]

| | |
|---|---|
| Resistance Range, Ohms | 500-1M |
| Standard Resistance Tolerance | ± 20% |
| Residual Resistance | 20 ohms max. |
| Power rating Input Voltage, maximum | 200 Vac max. |
| Power Rated, Watts | 0.2W- B taper, 0.1W-others |
| Dielectric Strength | 500Vac, I minute |
| Insulation Resistance, Minimum | 100M ohms at 250Vdc |
| Sliding Noise | 100mV max. |
| Actual Electrical Travel, Nominal | 260° |

## MECHANICAL

| | |
|---|---|
| Total Mechanical Travel | 300°± 10° |
| Static Stop Strength | 90 oz-in |
| Rotational Torque | 0.5 to 1.25 oz-in |

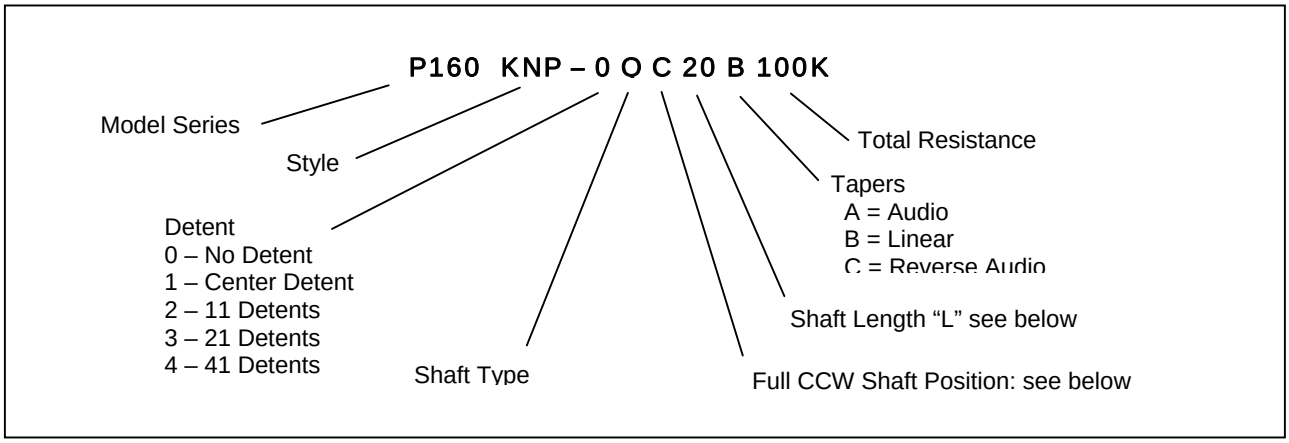
## ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature Range | -20°C to +70°C |
| Rotational Life | 100,000 cycles |

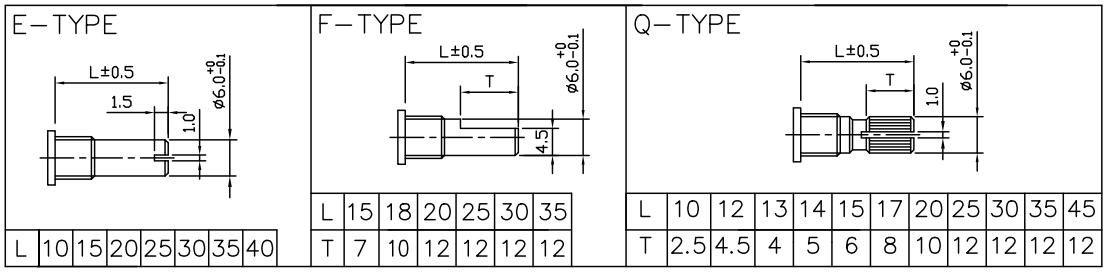
[1] *Specifications subject to change without notice.*

**BI Technologies Corporation**
4200 Bonita Place, Fullerton, CA 92835 USA
Phone: 714 447 2345 Website: www.bitechnologies.com

## ORDERING INFORMATION[2]




**Shaft Types**



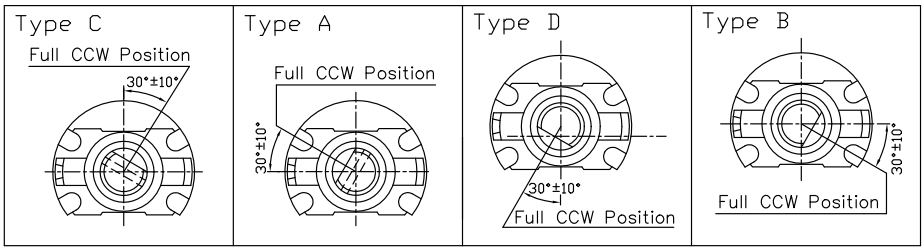

| L | 10 | 15 | 20 | 25 | 30 | 35 | 40 |
|---|---|---|---|---|---|---|---|

| L | 15 | 18 | 20 | 25 | 30 | 35 |
|---|---|---|---|---|---|---|
| T | 7 | 10 | 12 | 12 | 12 | 12 |

| L | 10 | 12 | 13 | 14 | 15 | 17 | 20 | 25 | 30 | 35 | 45 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| T | 2.5 | 4.5 | 4 | 5 | 6 | 8 | 10 | 12 | 12 | 12 | 12 |

**Shaft Position** (F-Type Shaft)

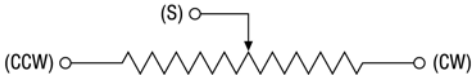
Dashed lines on Type "C" and Type "A" shows position of adjustment slot for E-Type and Q-Type shafts




## STANDARD RESISTANCE VALUES, OHMS

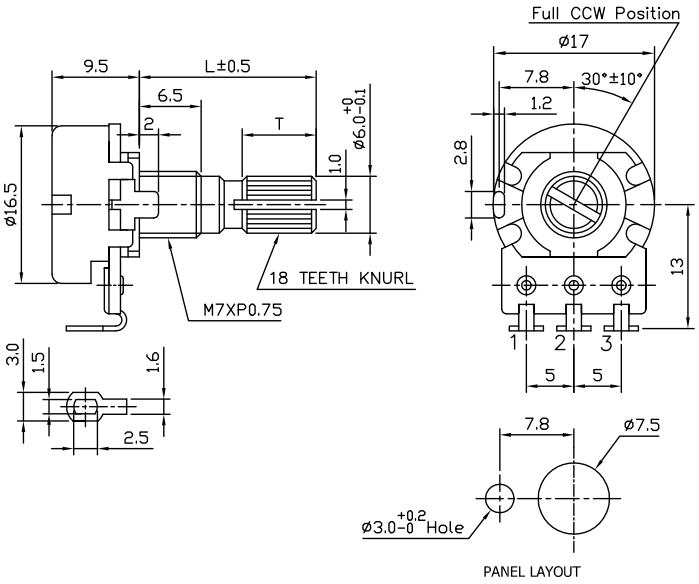
| 500 | 1K | 2K | 5K | 10K | 20K | 50K | 100K | 200K | 500K | 1MEG |
|---|---|---|---|---|---|---|---|---|---|---|

## CIRCUIT DIAGRAM

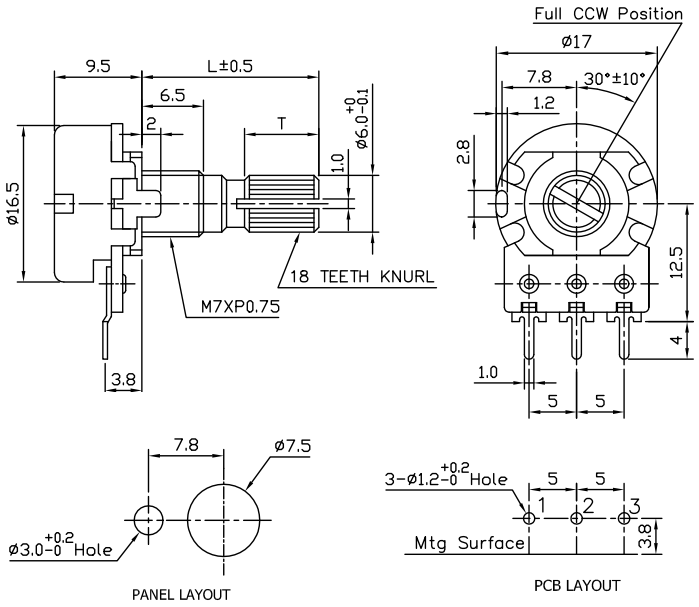


## OUTLINE DRAWING

### Model P160KNP (Side Adjust , Solder Lugs)

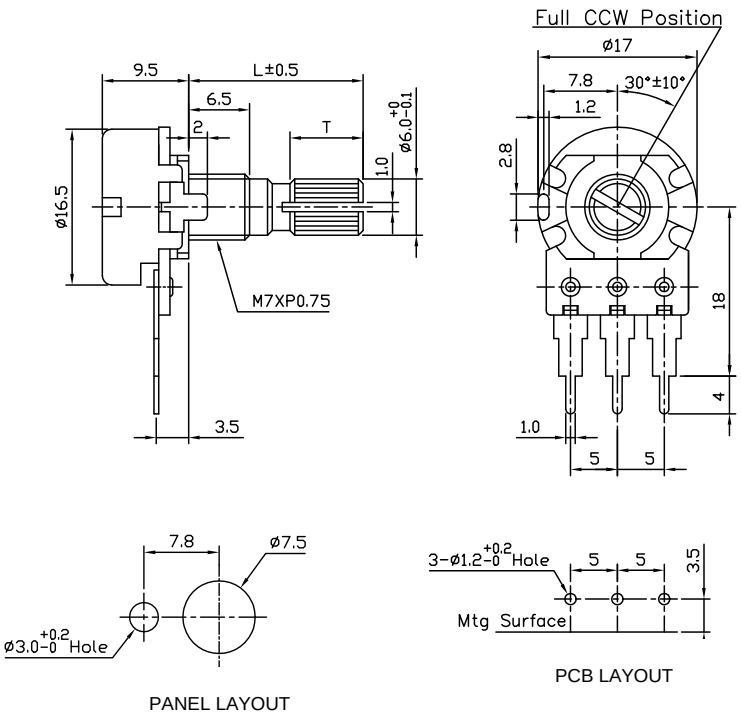



### Model P160KN (Side Adjust , PC pins)




[2] *Contact our customer service for custom designs and features.*

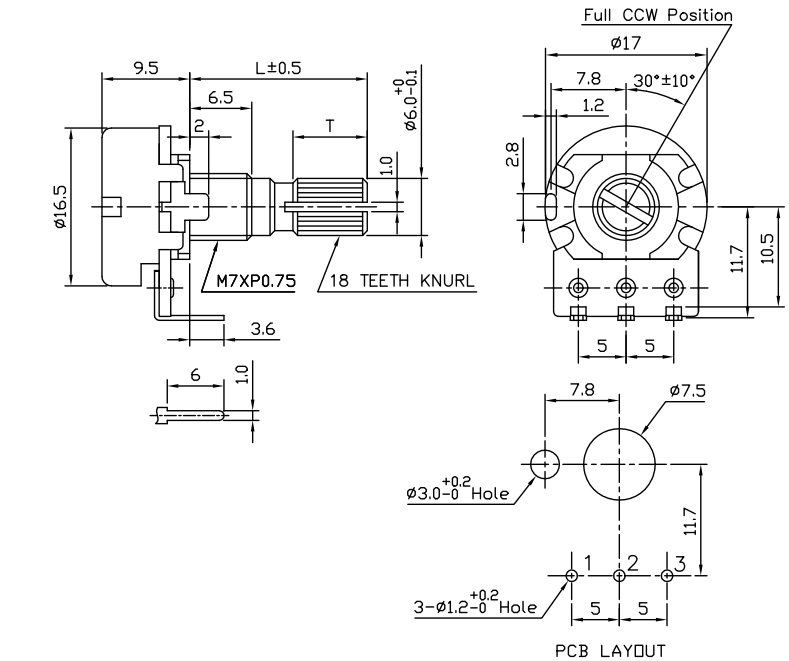
**Model P160KN2 (Side Adjust , PC Pins, Long pins)**




PANEL LAYOUT

PCB LAYOUT

**Model P160KNPD (Rear Adjust , PC Pins)**




PCB LAYOUT

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## BI Technologies:

P160KN-0Q15A100K

## TT electronics:

P160KN2-0ECB1MEG P160KNP-0QD20B50K P160KNP-0EC25B5K P160KN-0FC18C2K5 P160KNP-OQC15B200K P160KN-1EC20B20K P160KN2-0QA25B1K P160KNP-0QC20B100K P160KNPD-4QC15A5K P160KNP-0Q20B10K P160KNP-0QC20B50K P160KN2-0ECB50K P160KN2-0EC15B50K P160KN2-0ECB100K P160KN2-0EB10B100K P160KN-0EC15B100K P160KNP-0QC15B200K P160KN-0QC15B250K P160KN2-0QA25B10K P160KNPD-4QA15A5K P160KNP-0QC15B50K P160KN2-0EC15B10K P160KN2 0QC17B50K P160KNP-0QC15B10K P160KN-0E15B25K P160KN-0EC15A500K P160KN-0EC15A5K P160KN-0EC15B1MEG P160KN-0Q15B1MEG P160KN2-0QC17B10 P160KN2-0QC17B100K P160KNP-0EA15A20K P160KNP-0EC15A100K P160KNP-0EC15A10K P160KNP-0EC15A1MEG P160KNP-0EC15B250K P160KNP-0EC15B25K P160KNP-0EC15B2K P160KNP-0QC20A500K P160KNP-1FD15B10K P160KNP-4FB20B10K P160KNP-4FC15B100K P160KNPD-0EC25C20K P160KN-0QC15A100K P160KNP-0EC15B10K P160KNP-0EC15A250K P160KN-0EA15B10K P160KNP-0EC15B100K P160KN-1QC15B10K P160KNP-0QC20A100K P160KNP-0QC20B4K7 P160KNP-0QC20A250K P160KNPD-0FB25B100K P160KNP-0FC25B10K P160KN-0EC20B1MEG P160KNP-0QC10B10K P160KNP-1EC20B10K P160KNP-0QC15B100K P160KN-0QC15A250K P160KNP-0EC15B500K P160KNP-0FC20B10K P160KNP-0QC20C500K P160KN-0QC15C250K P160KNP-0E15C500K P160KNPD-0EC25C500K P160KNP-0EA20A50K P160KNP-0EC15C500K P160KNP-0QC2B100K P160KNP-0E15B5K P160KN2-0QC20B100K P160KN2-0QC15B1MEG P160KN-0QC15B1K P160KNP-0EA15A1MEG P160KNP-0FB15B10K P160KNP-0QD2B100K P160KN-0QC20B10K P160KNP-0FC25A10K P160KNP-0QC20A25K P160KNP-0FC10B100K P160KNP-0FD20A100K P160KNP-0FC25B50K P160KNPD-0QA17B1K P160KNP-0FC15B10K P160KNP-0QC20A10K P160KNP-0QC20B25K P160KNP-0QC15A1K P160KNP-0E15C200K P160KN-0EA15A100K P160KNP-0QC20B250K P160KNP-0QC20B500K P160KNP-0QC15C100K P160KNPD-0QC15A10K P160KNP-0FC18B100K P160KNP-2FD15B10K P160KNP-0QC20A1MEG P160KNP-0EC15C1MEG P160KNP-0FC15A10K P160KN-0FD18C10K P160KN-0QC15C500K P160KN-0FC20A1MEG