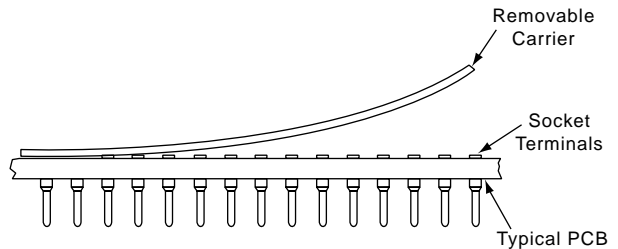


# PKC Series *Pin Grid Array Sockets*



PKC168-7H1711-V



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## FEATURES:

The PKC Series of Pin Grid Array Sockets is a method of carrying printed circuit pins on a removable carrier in a pin grid array format. This unique concept keeps the P.C. pins in alignment while they are being soldered to the circuit board, but allows the pin carrier to be removed after the circuit board is cleaned. This concept allows the circuit board to be easily inspected and allows individual pins to be replaced without having to unsolder the entire socket.

- Low insertion and withdrawal force contacts
- Ultra low profile version only .040" (1,02) max. above P.C. board
- Socket will retain minimum component lead length
- With ultra-low sockets installed, circuit boards can be mounted on .400" (10,16) centerline spacing
- Maximizes air flow across pin grid device
- Carrier will withstand up to 400°C for application of vapor phase or infrared soldering
- Removable carrier improves cleaning and inspection of solder joints
- Insulator: High Temperature DuPont Kapton® or equivalent
- PKC Carriers are always closed frame footprints.

## APPLICATION DIMENSIONS:

### Contact Style V

#### PCB Termination

Thickness Range ..... Standard .062" and .092" (1,57 to 2,34)  
 IC Pin Dimension Range ..... .016" to .021" (0,41 to 0,53) diameter  
 .105" (2,67) min. length

### Contact Style M

#### PCB Termination

Thickness Range ..... Standard .062" and .092" (1,57 to 2,34)  
 IC Pin Dimension Range ..... .016" to .019" (0,41 to 0,48) diameter  
 .100" (2,54) min. length

## PERFORMANCE SPECIFICATIONS:

### MECHANICAL

Vibration .....	Passed MIL-STD-1344, Method 2005, Condition V, D, 11.6 G's (RMS)
Shock .....	Passed MIL-STD-1344, Method 2004, Condition C, 100 G's
Durability .....	Passed MIL-STD-1344, Method 2016
Solderability .....	Passed MIL-STD-202F, Method 208
Inner Contact Retention .....	7.5 Lbs. Per Line Average
Normal Force	
Type M .....	30 Grams (1.1 oz.) with .018" (0,46) dia. polished steel pin
Type V .....	42 Grams (1.5 oz.) with .018" (0,46) dia. polished steel pin
Insertion Force	
Type M .....	55 Grams (1.9 oz.) average with a .018" (0,46) dia. polished steel pin
Type V .....	50 Grams (1.7 oz.) average with a .018" (0,46) dia. polished steel pin
Withdrawal Force	
Type M .....	44 Grams (1.6 oz.) average with a .018" (0,46) dia. polished steel pin
Type V .....	20 Grams (0.7 oz.) average with a .018" (0,46) dia. polished steel pin

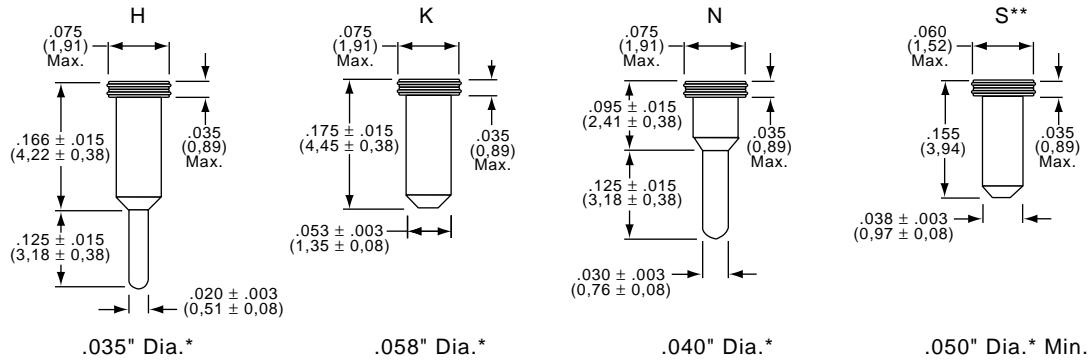
### ELECTRICAL

Contact Resistance .....	10 Milliohms
Contact Rating .....	3 Amps
Capacitance .....	1.0 pF per MIL-STD-202, Method 305 (contact to contact)
Dielectric Withstanding Voltage .....	1,000 Volts RMS per MIL-STD-1344, Method 3001.1

### ENVIRONMENTAL

Humidity .....	Passed MIL-STD-1344, Method 1002.2
Thermal Shock .....	Passed MIL-STD-1344, Method 1003.1
Operation Temperature ..	Gold inner contact -55°C to +125°C, Tin/lead inner contact -55°C to +105°C

TABLE 2 - PIN SELECTIONS



\* Recommended hole size      \*\* S sleeve is only offered with M contact

TABLE 1 - PLATING FINISHES

Plating Designation	Contact Plating	Sleeve Plating
1	Gold	Tin/Lead
2	Gold	Gold
3	Tin/Lead	Tin/Lead
7	Low Gold	Tin/Lead

TABLE 3 - CONTACT SELECTION

Designation	Contact Features
V	Low force, Six finger
M*	Low force, Three finger

\* For "S" sleeve only

## HOW TO ORDER

PKC

Removable Carrier

Number of Contacts

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Pin Selection (Table 2)

Grid size

Footprint Options (Pg. D23)

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Contact (Table 3)

Part Number Example: PKC068-1J1133-V

Plating Options (Table 1)      PKC Carriers always use footprints without windows