



PRODUCT NUMBER: 714-91-240-31-007000

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DATA SHEET



General Information	
Product Family:	PCB Connector
Type:	Single In Line Receptacle Carrier Socket
Category:	Interconnect
1 Description:	Plastic Carrier
Description2:	with Low Profile Receptacles
Mounting Type:	Through Hole Solder Mount
Rows:	Double Row
Number of Pins:	40
Country of Origin:	USA
2 Product Lifecycle:	Active

## 714-91-240-31-007000 - SPECIFICATIONS

Product Attributes	
Frame Type:	N/A
Head Type:	N/A
3 Plating Code:	91 - shell: 200 $\mu$ " Tin/Lead(93/7) over 100 $\mu$ " Nickel - inner contact: 10 $\mu$ " Gold over 50 $\mu$ " Nickel
Contact Number:	11 - Standard 3 Finger Contact
Lead Diameter Range:	.015"-.020" (0,381-0,508mm)
Insulator Material:	High Temp Thermoplastic
Pitch:	.100" (2,540mm)
Mounting Tab:	N/A
4 Operating Temperature Range:	-55/+125° C

Key Dimensions	
Head Diameter:	N/A
Insulator Height:	.110" (2,794mm)

Electrical Specifications	
5 Current Rating:	3 Amps
Contact Resistance:	10.00m $\Omega$ Max
Insulation Resistance:	10,000 M $\Omega$ min.
Rated Voltage:	100 VRMS/150 VDC
Dielectric Withstanding Voltage:	1,000 VRMS min.

Mechanical Specifications	
6 Mechanical life (Durability):	1,000 Cycles Minimum
7 Shock:	No Elect. Discontinuity > 1 $\mu$ s @ 50g
8 Vibration:	No Elect. Discontinuity > 1 $\mu$ s @ 10-2000HZ, 15 G

Mounting Specifications	
Mounting Hole Type:	Through Hole Solder Mount
SMT Pad Size:	N/A

### Environmental & Export Classifications

Cage Code:	3N087
ECCN:	Contact Factory
HTSUS:	8536.90.4040
Moisture Sensitivity Level (MSL):	1 (Unlimited)
Prop 65:	N
REACH Status:	REACH Unaffected
Shelf Life:	300
Special Handling Code:	UNDF
Static Sensitive:	N

### Packaging Information

<sup>9</sup> Packaging:	Packaged in Box or Tube
Tape Width:	N/A

## NOTES:

### 1. Standard Tolerances

Assembly tolerance: +/- .010" (.25mm)

Connector Length "L"

Connector Length "L"	Tolerance
$L \leq 2"$ ( $L \leq 50.8$ mm)	+/- .005" (+/- .127 mm)
$2 < L \leq 3"$ ( $50.8 < L \leq 76.2$ mm)	+ .007 / - .006" (+ .178 / - .152 mm)
$3 < L \leq 4"$ ( $76.2 < L \leq 101.6$ mm)	+ .009 / - .007" (+ .229 / - .178 mm)
$4 < L \leq 5"$ ( $101.6 < L \leq 127$ mm)	+ .011 / - .008" (+ .279 / - .203 mm)
$5 < L \leq 6.4"$ ( $127 < L \leq 162.56$ mm)	+ .013 / - .009" (+ .330 / - .229 mm)

Insulator width: +/- .005 (.13mm)

Insulator height: +/- .005 (.13mm)

Co-planarity of SMT connectors: .005" (.13mm) up to 1" (25.4mm) in connector length

Insulator Flatness: .005" (.13mm) up to 1" (25.4mm) in connector length

Pin Length: +/- .005 (.13mm)

Pin Diameter: +/- .002 (.051mm)

Pin Angle: +/- 2°

2. Part is Active and in Production, No Scheduled Obsolescence
3. **Shell Plating:** 200  $\mu$ " Tin/Lead(93/7) over 100  $\mu$ " Nickel  
**Contact/Clip Plating:** 10  $\mu$ " Gold over 50  $\mu$ " Nickel
4. Per IEC 60512-11-(4,-9,-10,-12)
5. Per IEC 60512-5-1, Current Carrying Capacity (evaluated at 10° C Temp. Rise)
6. Receptacles are capable of 1,000 Minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish, along with application specific variables, will affect the life of a receptacle contact.
7. For discrete pin only. Per IEC 60512-6-3: Test 6c: Shock
8. For discrete pin only. Per IEC 60512-6-4: Test 6d: Vibration (sinusoidal)
9. Not all part numbers in the series may be packaged in tubes. Some specific part numbers may be packaged in a box.

## ADDITIONAL NOTES AND SPECIFICATIONS

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice. Specifications and tolerances are provided wherever possible. The tolerance on dimensions of critical to function features is typically held tighter than the stated standard tolerances, such as press-fits, holes and lengths affecting the coplanarity of SMT products. Due to the wide variety of interconnects Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact Technical Services.

## RELATED LINKS AND DOCUMENTS

- Product Detail: [714-91-240-31-007000 - Plastic Carrier](#)
- Engineering Notebook: [How to Use Pin Receptacle Carriers](#)
- Environmental Compliance: <https://www.mill-max.com/rohs>