

# MIL-C-55302 Printed Circuit Connectors

-65°C to +125°C

## Part Number Ordering Information:

Example of P/N: **M55302/58LA14Y15**, where

| <b>M55302</b>                 | <b>/58</b>                           | <b>L</b>                                                       | <b>A</b>                      | <b>14</b>          | <b>Y</b>                               | <b>15</b>                                                                   |
|-------------------------------|--------------------------------------|----------------------------------------------------------------|-------------------------------|--------------------|----------------------------------------|-----------------------------------------------------------------------------|
| Military Specification Number | <a href="#">Detail Specification</a> | <a href="#">Socket Contact Type</a><br>(Omit for Pin Contacts) | <a href="#">Terminal Type</a> | Number of Contacts | <a href="#">Mounting Hardware Type</a> | <a href="#">Optional Polarization Code</a><br>(for Hardware Style "Y" ONLY) |

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| Part Number                                | Type Description                | Terminal Type               | No. of Contacts                                            | Mounting Hardware Options |
|--------------------------------------------|---------------------------------|-----------------------------|------------------------------------------------------------|---------------------------|
| <b>0.100 Inch Spacing Between Contacts</b> |                                 |                             |                                                            |                           |
| M55302/55XXXXX                             | Plug, Socket Contacts, Straight | <a href="#">See Table 2</a> | 10, 14, 20, 34, 26, 30, 36, 40, 44, 50, 54, 56, 60, 66, 70 | L, M, S, H                |
| M55302/56XXXX                              | Receptacle, Pin Contacts        | <a href="#">See Table 2</a> | "                                                          | Jackset                   |
| M55302/57XXXX                              | Plug, Pin Contacts, Right Angle | <a href="#">See Table 1</a> | "                                                          | X, Y, S, H                |
| M55302/58XXXXX                             | Receptacle, Socket Contacts     | <a href="#">See Table 2</a> | "                                                          | X, Y, F, S, H             |
| M55302/61XXXX                              | Plug, Pin contacts, Right Angle | <a href="#">See Table 1</a> | "                                                          | Jackset                   |
| M55302/62XXXXX                             | Receptacle, Socket Contacts     | <a href="#">See Table 2</a> | "                                                          | L, M, S, H                |
| M55302/63XXXX                              | Plug, Pin Contacts, Straight    | <a href="#">See Table 2</a> | "                                                          | L, M, S, F, H, X, Y       |
| M55302/64XXXXX                             | Receptacle, Socket Contacts     | <a href="#">See Table 2</a> | "                                                          | F, X, Y                   |
| M55302/65XXXXX                             | Receptacle, Socket Contacts     | Crimp Removable             | "                                                          | X, Y, F, S, H             |

|                                            |                                 |                             |              |                     |
|--------------------------------------------|---------------------------------|-----------------------------|--------------|---------------------|
| M55302/66XXXXX                             | Receptacle, Socket Contacts     | Crimp Removable             | "            | L, M, S, F, H       |
| M55302/59XXXX                              | Plug, Pin Contacts, Right Angle | <a href="#">See Table 1</a> | 90, 100, 120 | X, Y, F, S, H       |
| M55302/60XXXXX                             | Receptacle, Socket Contacts     | <a href="#">See Table 2</a> | 90, 100, 120 | X, Y, F, S, H       |
| M55302/138XXXXX                            | Plug, Pin Contacts, Right Angle | <a href="#">See Table 1</a> | 160          | X, Y, F, S, H       |
| M55302/139XXXXX                            | Receptacle, Socket Contacts     | See Slash Sheet             | 160          | X, Y, F, S, H       |
| <b>0.075 Inch Spacing Between Contacts</b> |                                 |                             |              |                     |
| M55302/190LXXXX                            | Receptacle, Socket Contacts     | <a href="#">See Table 3</a> | 100          | X, Y, F, S, N, L, M |
| M55302/191XXXXX                            | Plug, Pin Contacts, Right Angle | <a href="#">See Table 1</a> | 100          | X, Y, F, S, N, L, M |
| M55302/192LXXXX                            | Receptacle, Socket Contacts     | <a href="#">See Table 3</a> | 122, 152     | X, Y, F, S, N, L, M |
| M55302/193XXXXX                            | Plug, Pin Contacts, Right Angle | <a href="#">See Table 1</a> | 122, 152     | X, Y, F, S, N, L, M |

| Socket Contact Type Code | Description                                                |
|--------------------------|------------------------------------------------------------|
| -                        | Normal Insertion Force<br>(Not Available for /190 or /192) |
| L                        | Low Insertion Force                                        |

**Table 1: Contact Termination Options for M55302/57, /59, /61, /138, /191, /193**

| Terminal Type Code | Description        |
|--------------------|--------------------|
| A                  | .109L Dip Terminal |
| B                  | .140L Dip Terminal |
| C                  | .172L Dip Terminal |

**Table 2: Contact Termination Options for M55302/55, /56, /58, /60, /62, /63, /64**

| Terminal Type Code | Description                                                |
|--------------------|------------------------------------------------------------|
| A                  | Solder Cup                                                 |
| B                  | .140L Dip Terminal                                         |
| C                  | .172L Dip Terminal                                         |
| F                  | .100 Flex Circuit Terminal<br>(Not Applicable to /60, /63) |

**Table 3: Contact Termination Options for M55302/190, /192**

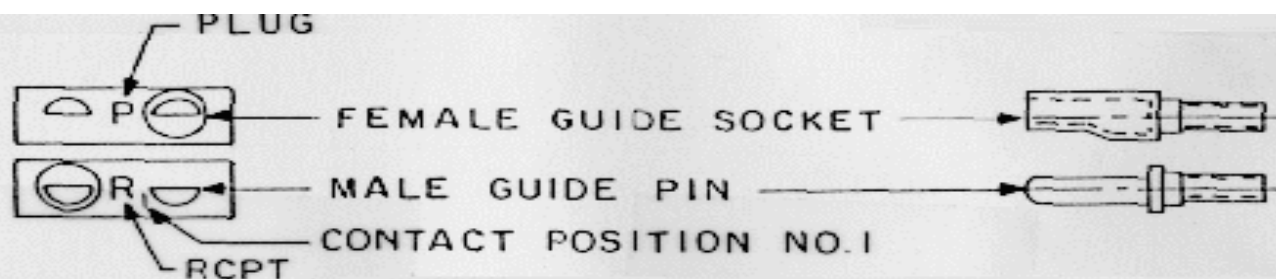
| Terminal Type Code | Description                |
|--------------------|----------------------------|
| A                  | Solder Cup                 |
| B                  | .109L Dip Terminal         |
| C                  | .140L Dip Terminal         |
| D                  | .172L Dip Terminal         |
| E                  | .093 Flex Circuit Terminal |

| Mounting Hardware Option Code | Description                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------|
| L                             | Long Slotted Turning Jackscrew (.700)                                             |
| M                             | Medium Slotted Turning Jackscrew (.500)                                           |
| S                             | Short Slotted Turning Jackscrew (.200);<br><a href="#">See Application Note 7</a> |
| F                             | Fixed Jackscrew                                                                   |
| H                             | Short Hex Turning Jackscrew (.200);<br><a href="#">See Application Note 7</a>     |
| X                             | Full Round Guidepins                                                              |
| Y                             | D Shaped Guidepins                                                                |

**Mating Information**

| Plug Detail Specification | Mating Receptacle Detail Specification |
|---------------------------|----------------------------------------|
| /55                       | /56                                    |
| /57, /61, /63             | /58, /62, /64, /65, /66                |
| /138                      | /139                                   |
| /191                      | /190                                   |
| /193                      | /192                                   |

**Connector Polarization Code with D Shaped Guide Pins and Sockets for Hardware Style "Y"**



|    |     |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|-----|
| -1 | -9  | -17 | -25 | -33 | -41 | -49 | -57 |
| -2 | -10 | -18 | -26 | -34 | -42 | -50 | -58 |
| -3 | -11 | -19 | -27 | -35 | -43 | -51 | -59 |
| -4 | -12 | -20 | -28 | -36 | -44 | -52 | -60 |
| -5 | -13 | -21 | -29 | -37 | -45 | -53 | -61 |
| -6 | -14 | -22 | -30 | -38 | -46 | -54 | -62 |
| -7 | -15 | -23 | -31 | -39 | -47 | -55 | -63 |
| -8 | -16 | -24 | -32 | -40 | -48 | -56 | -64 |