

# MCX Series Connectors

50 ohm / 75 ohm

MCX microminiature connectors are excellent electrical characteristics and particularly simple, suitable for 50 ohm applications and used at frequency range up to 6 GHz.

The MCX devices enable a 30% space reduction over similar SMB / SMC types.

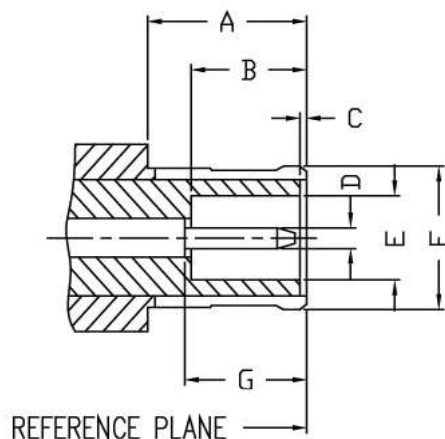
The MCX is available for affixment to industry standard cable and as a printed circuit board device.

The "push-on / pull-off" connection feature between devices offer the user ease of assemble in dense packaging layouts.

These small size, weight, performance and ease of assembly are the driving considerations to the final design decision.

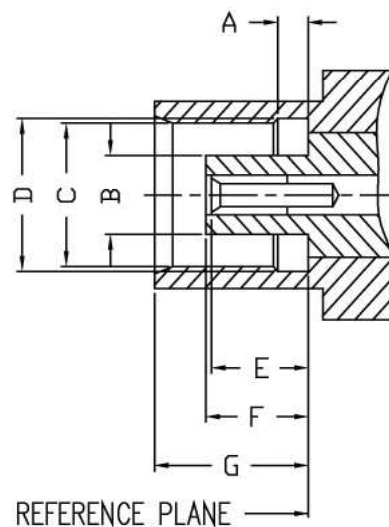
These include GPS, wireless communications (WLAN and mobile) and automotive.

## Interface Dimensions:



**PLUG**

| Letter | Millimeters (Inches) |             |
|--------|----------------------|-------------|
|        | Minimum              | Maximum     |
| A      | 4.16 (.163)          | -           |
| B      | 2.81 (.110)          | 3.20 (.126) |
| C      | 0.00 (.000)          | 0.30 (.012) |
| D      | 0.48 (.019)          | 0.53 (.021) |
| E      | 2.00 (.079)          | 2.07 (.081) |
| F      | 3.63 (.143)          | 3.80 (.150) |
| G      | 2.81 (.110)          | 3.20 (.126) |



**JACK**

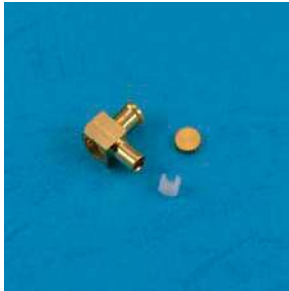
| Letter | Millimeters (Inches) |             |
|--------|----------------------|-------------|
|        | Minimum              | Maximum     |
| A      | 0.75 (.030)          | 0.85 (.033) |
| B      | 1.80 (.071)          | 1.98 (.078) |
| C      | 3.42 (.135)          | 3.48 (.137) |
| D      | 3.60 (.142)          | 3.75 (.147) |
| E      | 2.30 (.091)          | 2.80 (.110) |
| F      | 2.60 (.102)          | 2.80 (.110) |
| G      | 4.00 (.157)          | 4.12 (.162) |

MCX

# MCX Series Connectors

## Semi-Rigid Cable · Direct Solder Attachment

### Right Angle Plug



| ITEM NO.   | CABLE GROUP |
|------------|-------------|
| 11-121-085 | RG-405/U    |

**Applicable Cable:**  
RG-402/U(.141"), 405/U(.085")

## Flexible Cable · Crimp Attachment

### Straight Plug Crimp



| ITEM NO.  | CABLE GROUP |
|-----------|-------------|
| 11-111L/2 | RG-174/U    |

**Applicable Cable:**  
RG-174, 178, 179, 316  
1.13, 1.32

### Straight Plug Crimp



| ITEM NO. | CABLE GROUP |
|----------|-------------|
| 11-111F  | RG-58/U     |

**Applicable Cable:**  
RG-6, 58, 59, 213  
LMR-195, 200, 240, 300, 400, 600  
H 155

### Straight Jack Crimp



| ITEM NO. | CABLE GROUP |
|----------|-------------|
| 11-211L  | RG-174/U    |

**Applicable Cable:**  
RG-174, 178, 179, 316  
1.13, 1.32

### Straight Jack Crimp



| ITEM NO. | CABLE GROUP |
|----------|-------------|
| 11-211F  | RG-58/U     |

**Applicable Cable:**  
RG-6, 58, 59, 213  
LMR-195, 200, 240, 300, 400, 600  
H 155

### Right Angle Plug Crimp



| ITEM NO. | CABLE GROUP |
|----------|-------------|
| 11-121L  | RG-174/U    |

**Applicable Cable:**  
RG-6, 58, 59, 174, 178, 179, 213, 316  
LMR-195, 200, 240, 300, 400, 600  
H 155, 1.13, 1.32

### Right Angle Jack Crimp



| ITEM NO. | CABLE GROUP |
|----------|-------------|
| 11-221L  | RG-174/U    |

**Applicable Cable:**  
RG-6, 58, 59, 174, 178, 179, 213, 316  
LMR-195, 200, 240, 300, 400, 600  
H 155, 1.13, 1.32

# MCX Series Connectors

## Flexible Cable · Crimp Attachment

### Straight Bulkhead Jack Crimp



| ITEM NO. | CABLE GROUP |
|----------|-------------|
| 11-2310L | RG-174/U    |

**Applicable Cable:**

RG-6, 58, 59, 174, 178, 179, 213, 316  
LMR-195, 200, 240, 300, 400, 600  
H 155, 1.13, 1.32

## Bulkhead Mount Receptacle

### Straight Bulkhead Jack Receptacle



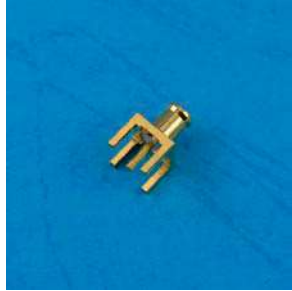
| ITEM NO.  |
|-----------|
| 11-235-2B |

**Type:**

(Solder Pot Contact)

## Printed Circuit Board Receptacle

### Straight PCB Mount Plug Receptacle



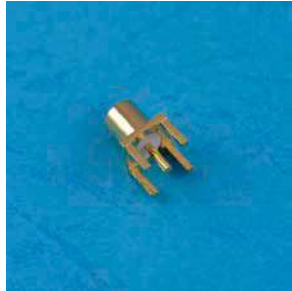
| ITEM NO. |
|----------|
| 11-P115  |

### Straight PCB Mount Jack Receptacle



| ITEM NO. |
|----------|
| 11-P215  |

### Straight PCB Mount Jack Receptacle



| ITEM NO. |
|----------|
| 11-P2152 |

### Right Angle PCB Mount Jack Receptacle

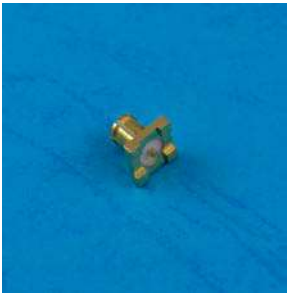


| ITEM NO. |
|----------|
| 11-P225  |

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# MCX Series Connectors

## Printed Circuit Board Receptacle / Surface Mount Receptacle

|                                                                                                                                                                                                         |          |            |                                                                                                                                                                                                        |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| <b>Right Angle PCB Mount Jack Receptacle</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11-P2251</td></tr></table>    | ITEM NO. | 11-P2251   | <b>Right Angle PCB Mount Jack Receptacle</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11-P2252</td></tr></table> | ITEM NO. | 11-P2252 |
| ITEM NO.                                                                                                                                                                                                |          |            |                                                                                                                                                                                                        |          |          |
| 11-P2251                                                                                                                                                                                                |          |            |                                                                                                                                                                                                        |          |          |
| ITEM NO.                                                                                                                                                                                                |          |            |                                                                                                                                                                                                        |          |          |
| 11-P2252                                                                                                                                                                                                |          |            |                                                                                                                                                                                                        |          |          |
| <b>Straight Surface Mount Plug Receptacle</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11-P115-1T</td></tr></table> | ITEM NO. | 11-P115-1T |                                                                                                                                                                                                        |          |          |
| ITEM NO.                                                                                                                                                                                                |          |            |                                                                                                                                                                                                        |          |          |
| 11-P115-1T                                                                                                                                                                                              |          |            |                                                                                                                                                                                                        |          |          |

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## In · Series Adapters

| <b>Plug-Plug</b> |    | <table><tr><th>ITEM NO.</th></tr><tr><td>11-311</td></tr></table> | ITEM NO. | 11-311 |
|------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------|--------|
| ITEM NO.         |                                                                                      |                                                                   |          |        |
| 11-311           |                                                                                      |                                                                   |          |        |
| <b>Jack-Jack</b> |  | <table><tr><th>ITEM NO.</th></tr><tr><td>11-322</td></tr></table> | ITEM NO. | 11-322 |
| ITEM NO.         |                                                                                      |                                                                   |          |        |
| 11-322           |                                                                                      |                                                                   |          |        |

## Between Series Adapters

|                                                                                                                                                                                   |          |         |                                                                                                                                                                                     |          |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|
| <b>MCX Plug-PAL Plug</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11E-311</td></tr></table> | ITEM NO. | 11E-311 | <b>MCX Plug-PAL Jack</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11E-312</td></tr></table> | ITEM NO. | 11E-312 |
| ITEM NO.                                                                                                                                                                          |          |         |                                                                                                                                                                                     |          |         |
| 11E-311                                                                                                                                                                           |          |         |                                                                                                                                                                                     |          |         |
| ITEM NO.                                                                                                                                                                          |          |         |                                                                                                                                                                                     |          |         |
| 11E-312                                                                                                                                                                           |          |         |                                                                                                                                                                                     |          |         |

# MCX Series Connectors

## Between Series Adapters

|                                                                                                                                                                                     |          |          |                                                                                                                                                                                                 |          |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| <b>MCX Plug-F Jack</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11F-312</td></tr></table>       | ITEM NO. | 11F-312  | <b>MCX Jack-N Jack</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11N-322</td></tr></table>                 | ITEM NO. | 11N-322  |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 11F-312                                                                                                                                                                             |          |          |                                                                                                                                                                                                 |          |          |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 11N-322                                                                                                                                                                             |          |          |                                                                                                                                                                                                 |          |          |
| <b>MCX Plug-FME Plug</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11N1-311</td></tr></table>    | ITEM NO. | 11N1-311 | <b>MCX Plug-SMA Jack</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11S-312</td></tr></table>               | ITEM NO. | 11S-312  |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 11N1-311                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 11S-312                                                                                                                                                                             |          |          |                                                                                                                                                                                                 |          |          |
| <b>MCX Jack-SMA Plug</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11S-321</td></tr></table>   | ITEM NO. | 11S-321  | <b>Right Angle MCX Plug-SMA Plug</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>11S-411</td></tr></table> | ITEM NO. | 11S-411  |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 11S-321                                                                                                                                                                             |          |          |                                                                                                                                                                                                 |          |          |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 11S-411                                                                                                                                                                             |          |          |                                                                                                                                                                                                 |          |          |
| <b>MCX Plug-MMCX Plug</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>1113-311</td></tr></table> | ITEM NO. | 1113-311 | <b>MCX Plug-MMCX Jack</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>1113-312</td></tr></table>           | ITEM NO. | 1113-312 |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 1113-311                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 1113-312                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| <b>MCX Jack-MMCX Plug</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>1113-321</td></tr></table> | ITEM NO. | 1113-321 | <b>MCX Jack-MMCX Jack</b><br> <table><tr><td>ITEM NO.</td></tr><tr><td>1113-322</td></tr></table>           | ITEM NO. | 1113-322 |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 1113-321                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| ITEM NO.                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |
| 1113-322                                                                                                                                                                            |          |          |                                                                                                                                                                                                 |          |          |

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