

## Within Series Adaptor 34\_SMA-50-0-3/111\_N

### Description

Bulkhead adaptor jack/jack  
SMA jack (female) / SMA jack (female)

Interface standard  
Series SMA - IEC 60169-15\_MIL-STD-348A/310\_CECC 22110

### Benefits

Hermetic sealed connector  
Ingress protection according to IP68



### Technical Data

#### Electrical Data

|                          |             |            |  |             |
|--------------------------|-------------|------------|--|-------------|
| Impedance                | 50 $\Omega$ |            |  |             |
| Interface frequency max. | 18 GHz      |            |  |             |
| Frequency range          | 0 to 3 GHz  | 3 to 7 GHz |  | 7 to 18 GHz |
| Return loss              | 26 dB       | 20 dB      |  | 17 dB       |

#### Mechanical Data

|                   |           |
|-------------------|-----------|
| Chassis torque    | 2 Nm      |
| Number of matings | 500       |
| Weight            | 0.0068 kg |

#### Environmental Data

|                                                      |                  |
|------------------------------------------------------|------------------|
| Operating temperature                                | -20 °C to 165 °C |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | not compliant    |

#### Material Data

Interface - SMA jack (female)

| Piece Parts    | Material                    | Surface Plating                   |
|----------------|-----------------------------|-----------------------------------|
| Centre contact | Copper Beryllium Alloy      | Gold Plating (Nickel underplated) |
| Outer contact  | Copper Beryllium Alloy      | Gold Plating (Nickel underplated) |
| Body           | Copper Beryllium Alloy      | Gold Plating (Nickel underplated) |
| Insulator      | PFA / PTFE                  |                                   |
| Gasket         | FKM (Fluoro elastomer, FPM) |                                   |

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### Related Documents

|                 |              |
|-----------------|--------------|
| Outline drawing | DOU-00013644 |
| Mounting hole   | DOU-00008860 |

### Ordering Information

|                |                      |
|----------------|----------------------|
| Single package | 34_SMA-50-0-3/111_NE |
|----------------|----------------------|

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### Remarks

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Hermetically sealed: leak rate  $\leq 10^{-7}$  Torr l/s (atm cc/s)

O-ring mount bulkhead feedthrough design, leak rate dependent on environmental condition, typ.  $\leq 10^{-6}$  Torr l/s"