

# COAXIAL ADAPTER, BMA - SMA, 50 Ohm, Panel, jack / jack (female / female), flange mount

37\_BMA-SMA-50-1/1--\_U

## Properties

- Wide range of different configurations
- Most common interfaces available
- Accurate transitions
- Effective and reliable interconnection solutions
- Appropriate materials



| Product configuration |               |                                          |
|-----------------------|---------------|------------------------------------------|
| Interface type        | Gender        | Standard                                 |
| BMA                   | jack (female) | IEC 60169-33_MIL-STD-348A/321            |
| SMA                   | jack (female) | IEC 60169-15_MIL-STD-348A/310_CEEC 22110 |

| Interface and material data |                        |                                            |
|-----------------------------|------------------------|--------------------------------------------|
| BMA                         |                        |                                            |
| <b>Piece parts</b>          | <b>Material</b>        | <b>Plating</b>                             |
| Centre contact              | Copper Beryllium Alloy | Gold Plating (without Nickel underplating) |
| Outer conductor             | Copper Beryllium Alloy | Gold Plating (without Nickel underplating) |
| Body                        | Stainless steel        |                                            |
| Insulator                   | PFA / PTFE             |                                            |
| SMA                         |                        |                                            |
| <b>Piece parts</b>          | <b>Material</b>        | <b>Plating</b>                             |
| Centre contact              | Copper Beryllium Alloy | Gold Plating (without Nickel underplating) |
| Outer conductor             | Stainless steel        |                                            |
| Body                        | Stainless steel        |                                            |
| Insulator                   | PFA / PTFE             |                                            |

| Electrical data     |                                                  |
|---------------------|--------------------------------------------------|
| Impedance           | 50 Ω                                             |
| Interface frequency | 18 GHz                                           |
| VSWR                | DC - 9 GHz ( $\leq 1.07 + 0.017 f \text{ GHz}$ ) |

| Electrical Data (frequency related) |                    |             |
|-------------------------------------|--------------------|-------------|
| <b>Frequency range</b>              | <b>Return loss</b> | <b>VSWR</b> |
| 9 GHz ... 18 GHz                    | 20.1 dB            | 1.22        |

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| Mechanical data |           |
|-----------------|-----------|
| Weight          | 0.0061 kg |
| Mating cycles   | 500       |

| Environmental data    |                   |
|-----------------------|-------------------|
| Operation temperature | -65 °C ... 125 °C |

| Material compliance |                                   |                                 |                      |
|---------------------|-----------------------------------|---------------------------------|----------------------|
| Item number         | Directive / Regulation            | Rating                          | Exemptions / Details |
| 22645649            | RoHS 2011/65/EU and (EU) 2015/863 | Compliant with exemption        | 6c                   |
|                     | REACH 1907/2006 Article 33 SVHC   | Contains one or more SVHC >0,1% | CAS: 7439-92-1 Lead  |

| Ordering Information Table |                        |                |
|----------------------------|------------------------|----------------|
| Item number                | Item description       | Packaging type |
| 22645649                   | 37_BMA-SMA-50-1/1--_UE | Single         |

| Additional Information |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Remarks                | Impedance matching DC to 9 GHz: VSWR &lt;= 1.07 + 0.017 * f [GHz] 9 to 18 GHz: VSWR &lt;= 1.22 / return loss >= 20.1 dB |

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