

All dimensions are in mm; tolerances according to ISO 2768 m-H

Interface

According to ISO 20860-1

Documents

PCB layout MB_355; MB_172
Tape & reel packaging VG255.43000

Material and plating

Connector parts

Center contact
Outer contact
Dielectric
Housing

Material

Brass
Zinc alloy
HTN
HTN

Plating

AuroDur®, gold plated
Tin, 2-5 µm, over Nickel 1-5µm

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RF_35/05:10/6.0

Electrical data

| | |
|---------------------------|-----------------------------------|
| Impedance | 50 Ω |
| Frequency | DC to 6 GHz |
| Return loss | ≥ 26 dB, DC to 1 GHz |
| Insertion loss | ≤ 0.1 x $\sqrt{f(\text{GHz})}$ dB |
| Insulation resistance | ≥ 1x10 ³ MΩ |
| Center contact resistance | ≤ 5 mΩ |
| Outer contact resistance | ≤ 5 mΩ |
| Test voltage | 750 V rms |
| Working voltage | 335 V rms |
| Power current | ≤ 1 A DC |

- Connector only, VSWR in application depends decisive on PCB layout –

Mechanical data

| | |
|-----------------------|---------|
| Mating cycles | ≥ 25 |
| Engagement force | ≤ 25 N |
| Disengagement force | ≥ 2 N |
| Retention force latch | ≥ 110 N |
| Coding efficiency | ≥ 40 N |

- Mechanical data are valid 48h from the end of the soldering process –

Environmental data

| | |
|--------------------------------|-------------------------------|
| Temperature range | -40°C to +105°C |
| Thermal shock | DIN 72594-2 clause 8.2 |
| Temperature and humidity | DIN 72594-2 clause 8.3 |
| Vibration and mechanical shock | DIN 72594-2 clause 8.1 |
| Dry heat | DIN 72594-2 clause 8.4 |
| Soldering profile | acc. IEC 60068-2-58 Group 3&4 |
| Storage temperature range | 0 – 23°C |
| Humidity range | max. 50% |
| RoHS | compliant |

Tooling

N/A

Packing















| | |
|----------|------------------------|
| Standard | 430 pcs in tape & reel |
| Weight | 2,4 g/pce |

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Coding

Part Number has to be accomplished by codification

| Coding | Color | RAL | Part-Number | |
|---|-------|----------------|-------------|-------------------|
|  | A | black | sim. 9005 | 59S2AQ-40MT5-A_1 |
|  | B | white | sim. 9001 | 59S2AQ -40MT5-B_1 |
|  | C | blue | sim. 5005 | 59S2AQ -40MT5-C_1 |
|  | D | bordeauxviolet | sim. 4004 | 59S2AQ -40MT5-D_1 |
|  | E | green | sim. 6002 | 59S2AQ -40MT5-E_1 |
|  | F | brown | sim. 8011 | 59S2AQ -40MT5-F_1 |
|  | G | grey | sim. 7031 | 59S2AQ -40MT5-G_1 |
|  | H | violet | sim. 4003 | 59S2AQ -40MT5-H_1 |
|  | I | beige | sim. 1001 | 59S2AQ-40MT5-I_1 |
|  | K | curry | sim. 1027 | 59S2AQ-40MT5-K_1 |
|  | L | carmine-red | sim. 3002 | 59S2AQ-40MT5-L_1 |
|  | M | pastel-orange | sim. 2003 | 59S2AQ-40MT5-M_1 |
|  | N | white-green | sim. 6019 | 59S2AQ-40MT5-N_1 |
|  | Z | waterblue | sim. 5021 | 59S2AQ-40MT5-Z_1 |