

A7HM-S



4.3-10 Male for 1-5/8 in AVA7-50 cable

Product Classification

| | |
|-----------------------|----------------------------------|
| Product Type | Wireless and radiating connector |
| Product Brand | HELIAX® |
| Product Series | AVA7-50 AVA7RK-50 |

General Specifications

| | |
|--|--|
| Body Style | Straight |
| Cable Family | AVA7-50 |
| Harmonized System (HS) Code | 854420 (Coaxial cable and other coaxial electric conductors) |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | 4.3-10 Male |
| Interface 2 | 4.3-10 Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |

Dimensions

| | |
|---------------------|----------------------|
| Length | 659.89 mm 25.98 in |
| Diameter | 59.44 mm 2.34 in |
| Nominal Size | 1-5/8 in |

Electrical Specifications

| | |
|-----------------------------------|----------------------|
| 3rd Order IMD at Frequency | -117 dBm @ 1800 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |

A7HM-S

| | |
|---------------------------------|--------------|
| Insertion Loss, typical | 0.05 dB |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 2700 MHz |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|-----------------------|-------------|-------------------------|
| 0–1000 MHz | 1.02 | 40.09 |
| 1000–2700 MHz | 1.04 | 34.16 |
| 2700–3800 MHz | 1.07 | 29.42 |

Mechanical Specifications

| | |
|-------------------------------------|-----------------------|
| Coupling Nut Proof Torque | 10 N-m 88.507 in lb |
| Interface Durability Method | IEC 61169-4:9.5 |
| Mechanical Shock Test Method | IEC 60068-2-27 |

Environmental Specifications

| | |
|---|--------------------------------------|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Corrosion Test Method | IEC 60068-2-11 |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Moisture Resistance Test Method | IEC 60068-2-3 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |
| Water Jetting Test Mating | Mated |
| Water Jetting Test Method | IEC 60529:2001, IP66 |

Packaging and Weights

| | |
|--------------------|------------------|
| Weight, net | 400 g 0.882 lb |
|--------------------|------------------|

A7HM-S

Regulatory Compliance/Certifications

Agency

ISO 9001:2015

**Classification**

Designed, manufactured and/or distributed under this quality management system

* Footnotes

Insertion Loss, typical

0.05v⁻freq (GHz) (not applicable for elliptical waveguide)

Immersion Depth

Immersion at specified depth for 24 hours