222040-10 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理

EW20, HELIAX® Standard Elliptical Waveguide, 2.3–2.4 GHz, unjacketed

Product Classification

Product Type Elliptical waveguide

Product Brand HELIAX®

General Specifications

Performance Note Values typical, unless otherwise stated

Dimensions

Diameter Over Jacket (E Plane)127.5 mm | 5.02 inDiameter Over Jacket (H Plane)71.9 mm | 2.831 in

Cable Volume 5621 L/km | 60.504 ft³/kft

Electrical Specifications

eTE11 Mode Cutoff 1.57 GHz

Group Delay at Frequency 128 ns/100 ft @ 2.600 GHz | 418 ns/100 m @ 2.600 GHz

Operating Frequency Band 2.3 – 2.4 GHz

VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

2.3–2.4 GHz 1.15 23.13

Attenuation

 Frequency (GHz)
 Attenuation (dB/100 m)
 Attenuation (dB/100 ft)
 Average Power (kW)
 Group Velocity %

 2.3
 1.534
 0.468
 31.501
 73.1

 2.4
 1.484
 0.452
 32.559
 75.6

Material Specifications

Conductor Material Corrugated copper

Jacket Material Unjacketed

Mechanical Specifications

Minimum Bend Radius, Multiple Bends (E Plane) 660 mm | 25.984 in

Minimum Bend Radius, Multiple Bends (H Plane) 1800 mm | 70.866 in

Page 1 of 2



222040-10 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理

Minimum Bend Radius, Single Bend (E Plane)460 mm | 18.11 inMinimum Bend Radius, Single Bend (H Plane)1270 mm | 50 inMaximum Twist0.098 °/m | 0.03 °/ft

Environmental Specifications

Installation temperature $-40 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

Operating Temperature $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Storage Temperature $-70 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-94 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Attenuation, Ambient Temperature $75 \,^{\circ}\text{F}$ | $23.889 \,^{\circ}\text{C}$ Average Power, Ambient Temperature $104 \,^{\circ}\text{F}$ | $40 \,^{\circ}\text{C}$ Average Power, Temperature Rise $42 \,^{\circ}\text{C}$ | $107.6 \,^{\circ}\text{F}$

Packaging and Weights

Cable weight 2.76 kg/m | 1.855 lb/ft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

