

# 1180SCM

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Fixed-tuned PBR220 for elliptical waveguide 180

## Product Classification

<b>Brand</b>	HELIAX®
<b>Product Type</b>	Elliptical waveguide connector

## General Specifications

<b>Interface</b>	PBR220
<b>Waveguide Size</b>	WR42   WG20   R220
<b>Body Style</b>	Straight, fixed-tuned
<b>Material Type</b>	Brass

## Electrical Specifications

<b>Operating Frequency Band</b>	17.7 – 19.7 GHz
<b>Insertion Loss, typical</b>	0.01 dB
<b>Peak Power, maximum</b>	7.30 kW @ 18.70 GHz

## Mechanical Specifications

<b>Attachment Method</b>	Tab-flare   Tool-flare
<b>Inner Contact Plating</b>	Unplated
<b>Outer Contact Plating</b>	Unplated
<b>Pressurizable</b>	Yes

## Dimensions

<b>Length</b>	64.26 mm   2.53 in
<b>Transition Length</b>	26.92 mm   1.06 in
<b>Weight</b>	0.40 kg   0.88 lb
<b>Width</b>	38.10 mm   1.50 in

## Environmental Specifications

<b>Operating Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)
<b>Storage Temperature</b>	-55 °C to +85 °C (-67 °F to +185 °F)

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



## \* Footnotes

**Insertion Loss, typical** 0.05v\*freq (GHz) (not applicable for elliptical waveguide)