



177SEM
Fixed-tuned PDR84 for elliptical waveguide 77

General Specifications

Body Style	Straight, fixed-tuned
Interface	PDR84
Waveguide Size	WR112 WG15 R84
Brand	HELIAX®
Material Type	Brass

Electrical Specifications

Operating Frequency Band	7.125 – 8.5 GHz
Insertion Loss, typical	0.01 dB
Peak Power, maximum	63.00 kW @ 7.80 GHz

Mechanical Specifications

Attachment Method	Tab-flare Tool-flare
Inner Contact Plating	Unplated
Outer Contact Plating	Unplated
Pressurizable	Yes

Dimensions

Length	92.20 mm 3.63 in
Transition Length	55.12 mm 2.17 in
Weight	1.40 kg 3.09 lb
Width	88.39 mm 3.48 in

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)

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Product Specifications

COMMScope®

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* Footnotes

Insertion Loss, typical $0.05\sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)