

Waveguide Coupler

AWDC8.2G12.4G30SF

Revision record

Date	Version	Author	Revision description	Comment
2024/09/04	V1.2	Vivian	Created	/

Electrical specification

Parameter	Specifications
Frequency range	8.2-12.4GHz
VSWR	Mainline:≤1.1 Subline: ≤1.35
Insertion loss	≤0.1dB
Directivity	≥15dB(typical value)
Coupling degree	30±1dB
Coupling wave	±0.8dB
Power	25KW (Peak)
Operational Temperature	-40°C~+85°C

Mechanical specification

Parameter	Specification
Dimension	As shown as below
Coaxial Connector	SMA-Female
Flange Connector	FBP100
Materials	Aluminum
Surface Finish	Conductive oxidation
Vibration	Per MIL-STD-202F.method 204D,conditionB (0.06" double amplitude or 15 G. whichever is less) Design guarantee
Shock	Per MIL-STD-202F, method 213B, conditionJ (30 G, 11 mssc) Design guarantee
Humidity	Per MIL-STD-202F,method 103B, conditionB (96 hours at 95% relative humidity) Design guarantee
Altitude	Per MIL-STD-202F,method 105G,conditionB(50.000 feet) Design guarantee

Thermal Shock	Per MIL-STD-202F, method 107D, condition A (5 cycles) Design guarantee
Notes	Material shall be RoHS 6/6

Outline

