

Power Divider A4PD47G52.5G10W

Revision record

Date	Version	Author	Revision description	Comment
2024/09/18	V1.0	Vivian	Created	/

Electrical specification

Parameter	Specification	
Frequency Range	47-52.5GHz	
Nominal Splitter Loss	≤6dB	
Insertion Loss	≤2.4dB (Typ. ≤1.8dB)	
Isolation	≥15dB (Typ. ≥18dB)	
Input VSWR	≤2.0:1 (Typ. ≤1.6:1)	
Output VSWR	≤1.8:1 (Typ. ≤1.6:1)	
Amplitude Imbalance	±0.5dB (Typ. ±0.3dB)	
Phase Imbalance	±7° (Typ. ±5°)	
Power Rating	Forward Power	10W
	Reverse Power	0.5W
	Peak Power	100W (10% Duty Cycle, 1 us Pulse Width)
Impedance	50Ω	
Operational Temperature	-40° C~+85° C	
Storage Temperature	-50° C~+105° C	

Mechanical specification

Parameter	Specification
Dimension	L x W x H: 88.93mm x 38.1mm x 12.7mm (±0.5mm)
Connector	Input / Output 1.85mm-Male
Application	Indoor or Outdoor, IP65
Finish	Gray Paint
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)

	(Optional)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions
Notes	Material shall be RoHS 6/6

Outline

