

Power Divider

A4PD37.5G42.5G10W

Revision record

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

Electrical specification

Parameter		Specification
Frequency Range		37.5-42.5GHz
Nominal Splitter Loss		≤6dB
Insertion Loss		≤2.4dB (Typ. ≤1.8dB)
Isolation		≥15dB (Typ. ≥18dB)
Input VSWR		≤1.7:1 (Typ. ≤1.5:1)
Output VSWR		≤1.7:1 (Typ. ≤1.5:1)
Amplitude Imbalance		±0.3dB (Typ. ±0.15dB)
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

