2-Way Resistive Power Divider / Splitter, DC–10 GHz, SMA Female

Compact 50 Ω two-way resistive splitter for broadband RF applications. Provides equal power division with stable performance across DC to 10 GHz.

FREQUENCY	IMPEDANCE	POWER	CONNECTORS
DC–10 GHz	**50** Ω	**0.5** W	**SMA** Female

HIGHLIGHTS

- Broadband DC to 10 GHz resistive power divider
- Equal split, stable amplitude & phase balance
- Low additional insertion loss across band
- Compact module with SMA Female ports

APPLICATIONS

- Signal splitting for test and measurement
- Broadband RF distribution networks
- Bench setups, lab fixtures, and prototypes
- General RF instrumentation

Product image for reference.

Handle RF connectors with care. Keep mating surfaces clean and protected.

Performance values represent worst-case limits across the specified frequency range. Typical values may be lower under nominal operating conditions.

Electrical Specifications

Reference Specs

Parameter	Value	Unit	Notes
Frequency range	DC to 10	GHz	Broadband operation
Impedance	50	Ω	System impedance
Insertion loss (above 6.02 dB split)	≤ 1.2	dB	Maximum additional loss
VSWR (input/output)	≤ 1.35:1	–	Max
Amplitude balance	≤ ±0.3	dB	Typical max deviation
Phase balance	≤ ±3	deg	Typical max deviation
Power handling (forward/reverse)	≤ 0.5	W	Continuous

Environmental & Mechanical

Operating limits

Operating temperature	-55 to +85	°C	Ambient
Humidity	Up to 95	%	Non-condensing
Weight	10	g	Approx.

Operating limits apply under continuous-wave conditions. Exceeding rated power may result in permanent damage.

Material & Construction

Mechanical build and interface materials

Item	Material	Finish	Notes
Housing	Aluminum 6061-T6	Chemically treated	Precision machined enclosure
Connector body	Stainless steel	Passivated	SMA Female ports
Center contacts	Beryllium copper	Gold plated	RF grade plating for low contact resistance

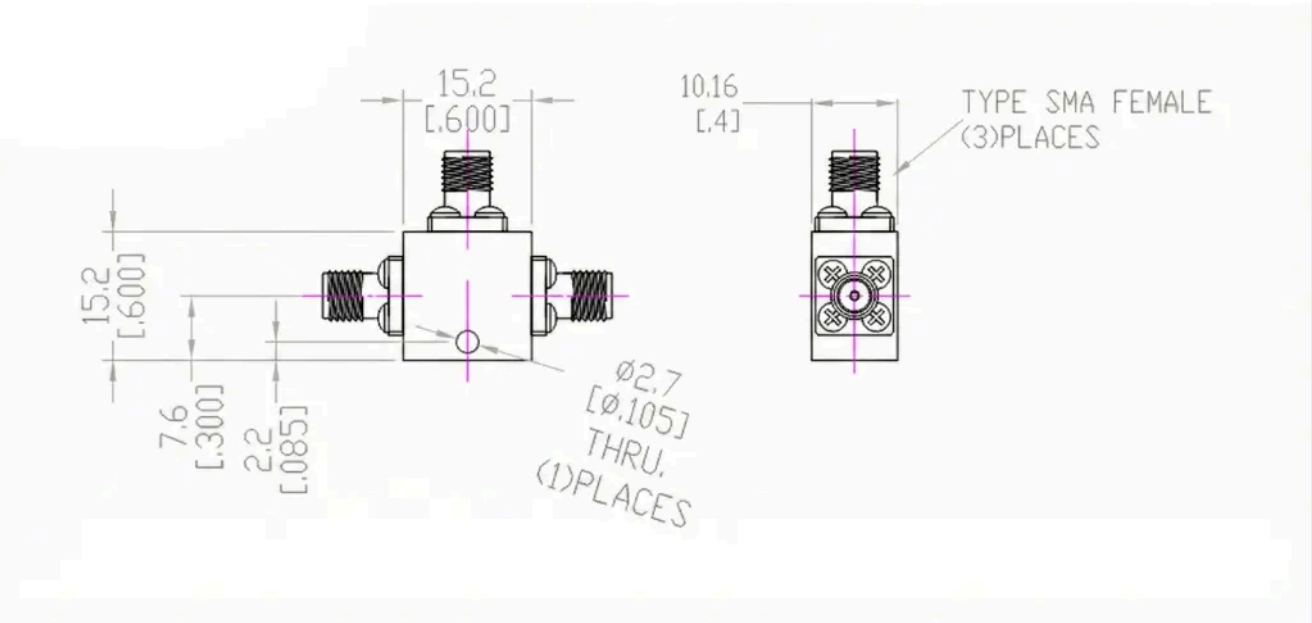
Compliance

Regulatory & environmental conformity

RoHS compliance	Yes	–	Lead-free construction
REACH compliance	Yes	–	Conforms to EU regulation

Mechanical

Outline drawing



Dimensions and layout per the mechanical drawing. All dimensions are in mm [inch] where applicable.