

E-REON 2-Way Power Splitter/Combiner, 800 MHz–2700 MHz, SMA-F, module

Wideband 2-way 0° power splitter/combiner for 50 Ω RF systems from 800 MHz to 2700 MHz. Designed for low insertion loss, good isolation, and balanced amplitude and phase performance.

FREQUENCY**800–2700** MHz**CONFIGURATION****2-Way** 0°**INSERTION LOSS****0.3** dB typ.**ISOLATION****22** dB typ.**HIGHLIGHTS**

- 2-way 0° power splitter/combiner
- Wideband operation from 800 MHz to 2700 MHz
- Low insertion loss: 0.3 dB typical
- Isolation: 22 dB typical
- Amplitude unbalance: 0.05 dB typical
- Phase unbalance: 1.1° typical

APPLICATIONS

- LMDS
- VSAT
- GPS
- UHF systems
- PCS
- Cellular infrastructure



Image is for reference only. Final appearance may vary slightly.

Designed for use in 50 Ω RF systems across the 800 MHz to 2700 MHz band.

Electrical Summary

Typical values at 25 °C unless otherwise noted

Parameter	Value	Unit	Notes
Frequency range	800–2700	MHz	Operating band
Insertion loss above 3.0 dB	0.3	dB	Typical
Isolation	22	dB	Typical
Amplitude unbalance	0.05	dB	Typical
Phase unbalance	1.1	deg.	Typical
VSWR (sum port)	1.3	:1	Typical

Electrical Specifications

50 Ω system, 25 °C unless otherwise noted

Parameter	Min	Typ.	Max	Unit	Notes
Frequency range	800	—	2700	MHz	Operating band
Insertion loss above 3.0 dB	—	0.3	0.5	dB	Total insertion loss above theoretical split loss
Isolation	18	22	—	dB	Between output ports
Phase unbalance	—	1.1	3.0	deg.	Across band
Amplitude unbalance	—	0.05	0.3	dB	Across band
VSWR (sum port)	—	1.3	1.5	:1	Port S
VSWR (ports 1, 2)	—	1.2	1.3	:1	Output ports

Maximum Ratings

Environmental and operating limits

Parameter	Rating	Unit	Notes
Operating temperature	–55 to +90	°C	Ambient
Storage temperature	–55 to +100	°C	Non-operating
Power input (as splitter)	10	W max.	Maximum input power
Internal dissipation	0.125	W max.	Maximum
DC current	80	mA	40 mA for each port

Connector Assignment

Sum Port = S
Port 1 = 1
Port 2 = 2

Mechanical Information

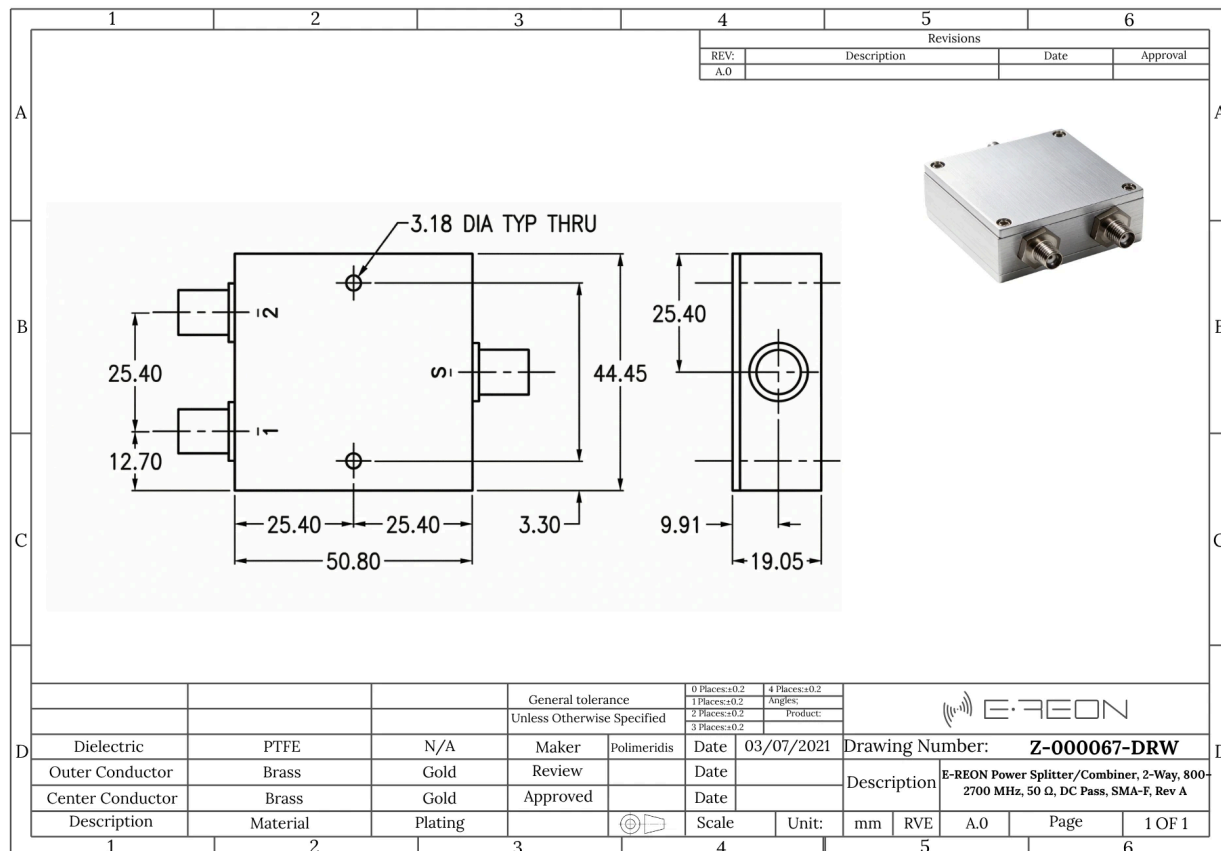
Outline dimensions and interfaces

Parameter	Value	Unit	Notes
Connector type	SMA Female	—	SMA version shown
Outline A	2.00 (50.80)	in (mm)	Reference
Outline B	2.00 (50.80)	in (mm)	Reference
Outline C	0.75 (19.05)	in (mm)	Reference

Additional outline dimensions are shown on the mechanical drawing page.

Mechanical Drawing

Dimensions are shown for installation reference



Drawing shown for the SMA connector version.