

3-Way Coaxial Power Combiner

8-40GHz /1.6dB,Insertion Loss/16 dB,Isolation

Model: RS3W80400-K

The RS3W80400-K is a coaxial 3-way power combiner with insertion loss of 1.6 dB at each output port and isolation of 16 dB across the frequency range of 8 to 40 GHz. The power combiner has a forward power handling of 5 W and amplitude balance of ± 0.8 dB. The VSWR for input ports is 1.8:1. The RF connectors of the power combiner are 2.92mm Female connectors.

Features:

- Ultra Wide Band:8-40 GHz
- Low Insertion Loss

Applications:

- Test Lab
- Sub-assemblies
- Test Instrumentations

Electrical Characteristics:

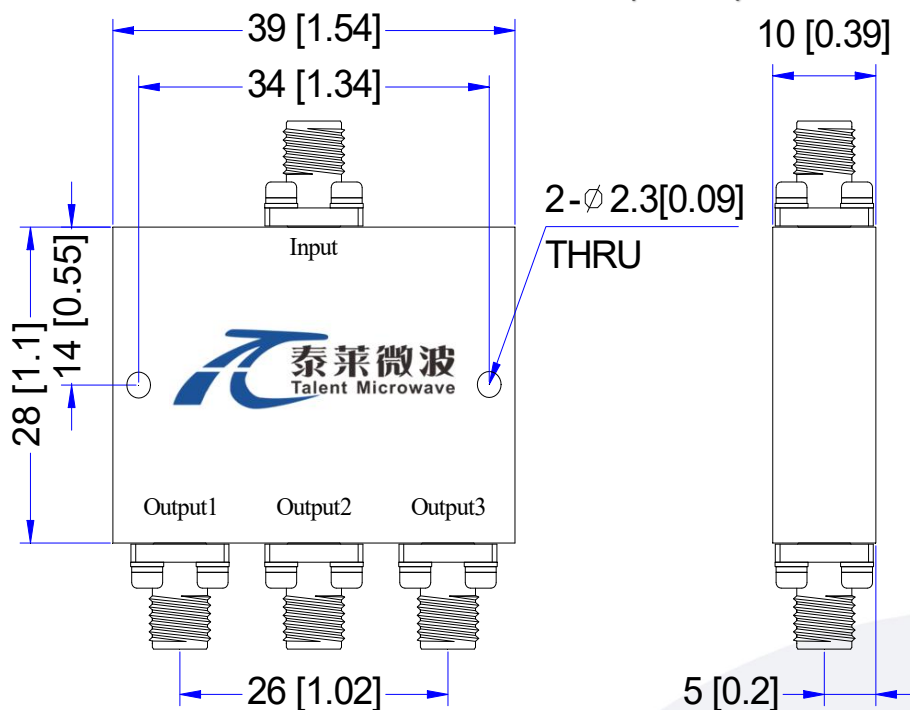
Parameter		Min	Typ	Max	Units
Frequency range		8-40			GHz
Insertion Loss				1.6 (excluded theoretical 4.8dB)	dB
Amplitude Balance				± 0.8	dB
Phase Balance				± 8	°
Port Isolation		16			dB
Power Handling	Forward power			5	W
	Reverse power			0.1	W
Input VSWR				1.8	:1
Output VSWR				1.6	:1
Impedance		50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
Size	39*28*10	mm
Weight	/	g

Outline Drawing:

Unit:mm(inches) Tolerance ± 0.25 (0.01)



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
RS3W80400-K	3-Way Coaxial Power combiner, 8-40GHz, Insertion loss:1.6dB Max; Port Isolation:16 dB Min	Rev.1.1