

Main specifications

Parameters	Min	Typical	Max	Units
Frequency	2	~	18	GHz
IL			1.5	dB
Common port VSWR			1.4	
Branching port VSWR			No	
Coupling port VSWR			1.5	
Coupling	38	40	42	dB
Directivity	10			dB
Phase balance		±8	±10	°

Other parameters

Power Capacity	200W Design assurance
X-Way	10 Way Radial synthesizer
Phase	0°
Impedance	50Ω
Connector	In: SMA-K, Out: N-K
Surface	White
Product shell material	Aluminium
Operation Temp.	-40~+70°C Design assurance

Port Definition

Common port	0 (N-K)
Dispatch Port	1~10 (SMA-K)
Forward coupling port	11 (SMA-K)
Reverse coupling port	12 (SMA-K)

Reference picture

Configuration(mm)

Typical test curve

Note

1	Clean the surface of the product, do not soak the product in cleaning solution for cleaning.
2	If the temperature is higher than 125°C, consult with us before ordering.

Typical test data

Frequency(GHz)	S11 VSW R	S12 IL dB	S12 coupli ng	S18 Phase (°)
1.5	2.46	-10.86	-40.28	-0.93
2.71	1.12	-10	-38.58	-2.28
3.93	1.07	-10	-39.66	-1.21
5.14	1.12	-10.15	-39.86	-1.77
6.36	1.1	-10.06	-39.38	-3.34
7.57	1.1	-9.64	-39.74	-3.46
8.79	1.11	-9.82	-39.81	4.27
10	1.09	-9.77	-39.66	-4.93
11.21	1.16	-10.36	-39.76	4.87
12.43	1.15	-9.51	-39.62	6.9
13.64	1.24	-9.93	-39.61	-2.55
14.86	1.14	-9.81	-39.61	-0.24
16.07	1.16	-10.02	-39.21	3.01
17.29	1.23	-10.11	-39.4	-1.34
18.5	1.33	-10.38	-39.66	2.76

Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.