

Power Divider

PDM-0108-S2



2 Way, 1-8 GHz, SMA, 20 Watts

Rev 1

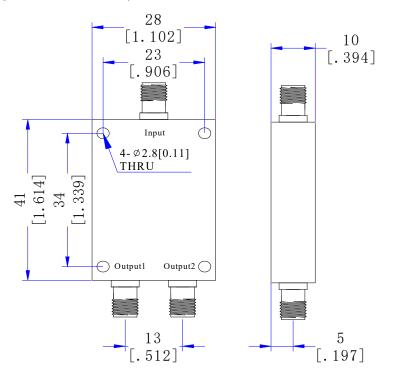
Electrical & Environmental

Impedance	50 ohm
Number of Output Ports	2 Way
Frequency Range	1-8 GHz
Insertion Loss	≤ 0.8dB (Excluding theoretical loss 3.0dB)
Input VSWR	1.25 max
Output VSWR	1.2 max
Isolation	20dB min
Amplitude Balance	≤ ±0.2dB
Phase Balance	≤ ±3°
Average Power Rating	20 Watts (As Divider), 1 Watts (As Combiner)
Operating Temperature	-45℃ ~ +85℃

Mechanical

Input/Output Connectors	SMA Female
Housing Finishing	Painted Aluminum
Outline Dimensions	41*28*10 (mm)
Weight	About 30g

Dimensions(Unit: mm/[inch], Tolerance: ±0.3mm)



Typical Test Data

							Marker 4	20 GHz		
Tr 1 S11 SWR 0.100U/ 1.00U			1	Tr 2	S21/M Phase	e 2 000°/ 0	00°			
2	1:	15.000 GHz	1.132	10			1:	15.000	GHz	2.62
1.9	> 2:	18.000 GHz	1.286	8			2:	18.000		2.79
1.8	3	17.000 GHz	1.386	6			3	17 000	GHz	2.97
1.7	4:	20.000 GHz	1.075	4			> 4:	20.000	GHz	3.24
1.6										
				2	1	2	3			
1.5 INPUT VSVVR				0						
1.4				-2					5	
1.3	3			-4			+	_		
1.2				-6						
1.1				-8						
1 1				-10						
1 Ch1: Start 14.0000 GHz -	0	Stor	20.0000 GHz	and other states of the state o	1: Start 14.00			12	Stop	20.0000 GI
Tr 3_S12 LogM 0 500dB/ -3 24	dB									20.0000 GI
Tr 3 S12 LogM 0.500dB/ -3.24		15.000 GHz		Tr 4	S22 SWR 0.		ou	15 000		
-0.74 -1.24	dB 1: 2:	15.000 GHz	-3 224 dB					Contraction of the local	GHz	1.18
-0.74	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4			0U > 1: 2: 3:	16.000 17.000	GHz GHz GHz	1.18
-0.74 -1.24 -1.74	1: > 2:	16.000 GHz	-3 224 dB -3 270 dB	Tr 4 2 1.9 1.8			0U > 1: 2:	16.000 17.000	GHz GHz	1.18 1.13 1.17
-0.74 -1.24 -1.74 -2.24	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4 2 1.9 1.8 1.7		100U/ 1.00	0U 2: 3: 4:	16.000 17.000 20.000	GHz GHz GHz GHz	1.18 1.13 1.17
-074 -1.24 -1.74 -1.74 -2.24 -2.74 Insertion Loss	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4 2 1.9 1.8		100U/ 1.00	0U > 1: 2: 3:	16.000 17.000 20.000	GHz GHz GHz GHz	1.18 1.13 1.17
-0.74 -1.24 -1.74 -2.24 -2.74 Insertion Loss -3.24 Δ	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4 2 1.9 1.8 1.7		100U/ 1.00	0U 2: 3: 4:	16.000 17.000 20.000	GHz GHz GHz GHz	1.18 1.13 1.17 1.18
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0.74 - 1.24 - 1.74 - 2.24 - 3.24 - 3.74 -	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4 2 1.9 1.8 1.7 1.6 1.5 1.4		100U/ 1.00	0U 2: 3: 4:	16.000 17.000 20.000	GHz GHz GHz GHz	1.18 1.13 1.17
0.74 - 1.24 - 1.74 - 2.24 - 3.24 - -	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4 2 1.9 1.8 1.7 1.6 1.5 1.4 1.3		100U/ 1.00	0U 2: 3: 4:	16.000 17.000 20.000	GHz GHz GHz GHz	1.18 1.13 1.17
0.74 - 1.24 - 1.74 - 2.24 - 3.24 - 3.74 - 4.24 - 4.74 -	1: > 2: 3:	16.000 GHz 17.000 GHz	-3 224 dB -3 270 dB -3 342 dB	Tr 4 2 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2		100U/ 1.00	0U 2: 3: 4:	16.000 17.000 20.000	GHz GHz GHz GHz	1.18 1.13 1.17
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0.74	1: > 2: 3:	16.000 GHz 17.000 GHz 20.000 GHz	-3 224 dB -3 270 dB -3 342 dB -3 263 dB -3 263 dB -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4 -4	Tr 4 2 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1	S22 SWR 0.	100U/ 1.00	DU 1: 3: 4: Output	16.000 17.000 20.000	GHz GHz GHz GHz GHz	1.18 1.15 1.17 1.18
0.74	1: 2: 3: 4: 4:	16.000 GHz 17.000 GHz 20.000 GHz	-3 224 dB -3 270 dB -3 263 dB -3 263 dB -3 263 dB -4 -3 263 dB -4 -3 263 dB -4 -3 263 dB -4 -3 263 dB -4 -3 263 dB -4 -3 264 dB -3 270 d	Tr 4 2 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1	S22 SWR 0.	100U/ 1.00	DU 1: 3: 4: Output	16.000 17.000 20.000	GHz GHz GHz GHz GHz	1.18 1.13 1.17

