

Power Divider, 2-way, 6-40GHz, 2.92 Female

WM2PD-6-40-K



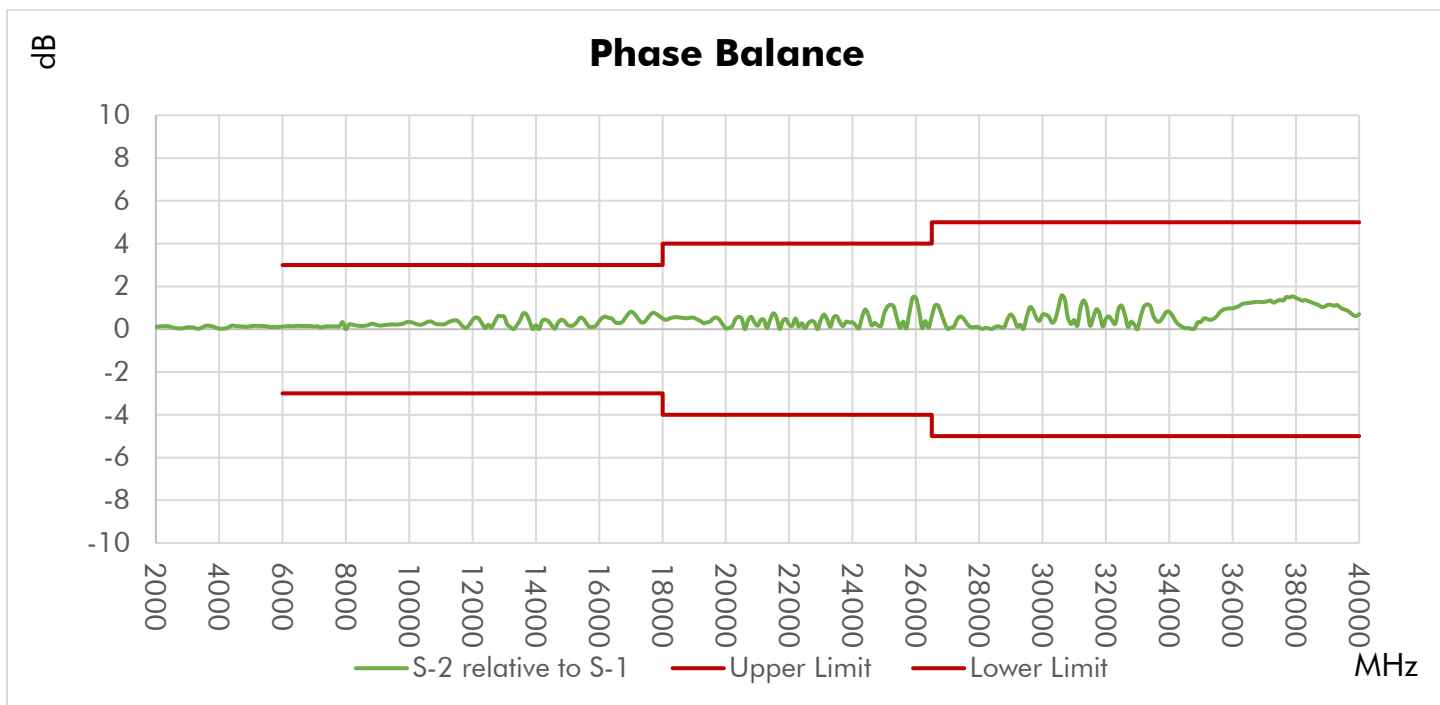
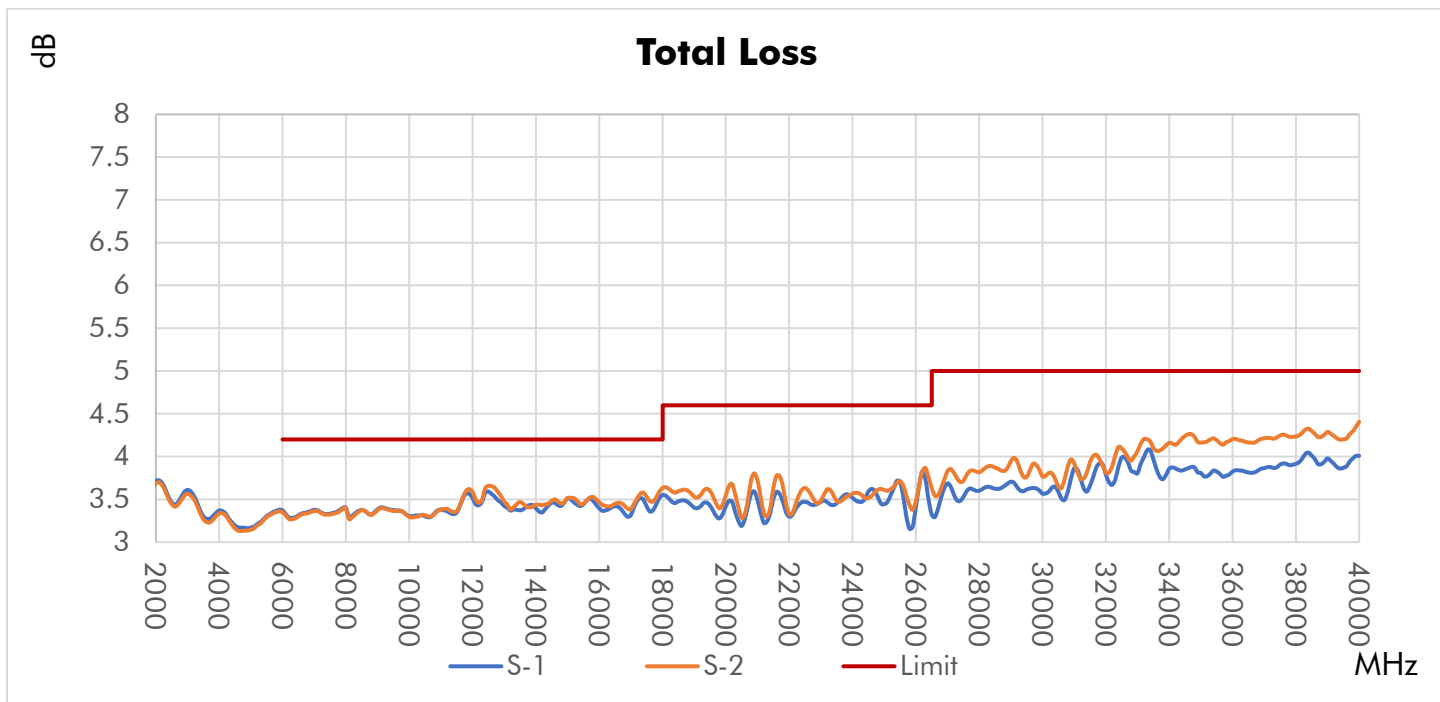
Parameter	Low Band	Mid Band	High Band	Unit
Frequency Range	6000-18000	18000-26500	26500-40000	MHz
Impedance	50			Ω
Return Loss (Port S)	14 (1.5:1)	12.6 (1.6:1)	12.6 (1.6:1)	dB, min.
Return Loss (Port 1-2)	14 (1.5:1)	12.6 (1.6:1)	12.6 (1.6:1)	dB, min.
Insertion Loss above 3.01dB	1.2	1.6	2.0	dB, max.
Isolation	16			dB, min.
Amplitude Unbalance ($\pm$) ¹	0.4	0.5	0.6	dB, max.
Phase Unbalance ($\pm$) ¹	3	4	5	Degree, max.
Input Power (CW) ²	10			W, max.
DC Current	0.3			A/port, max.

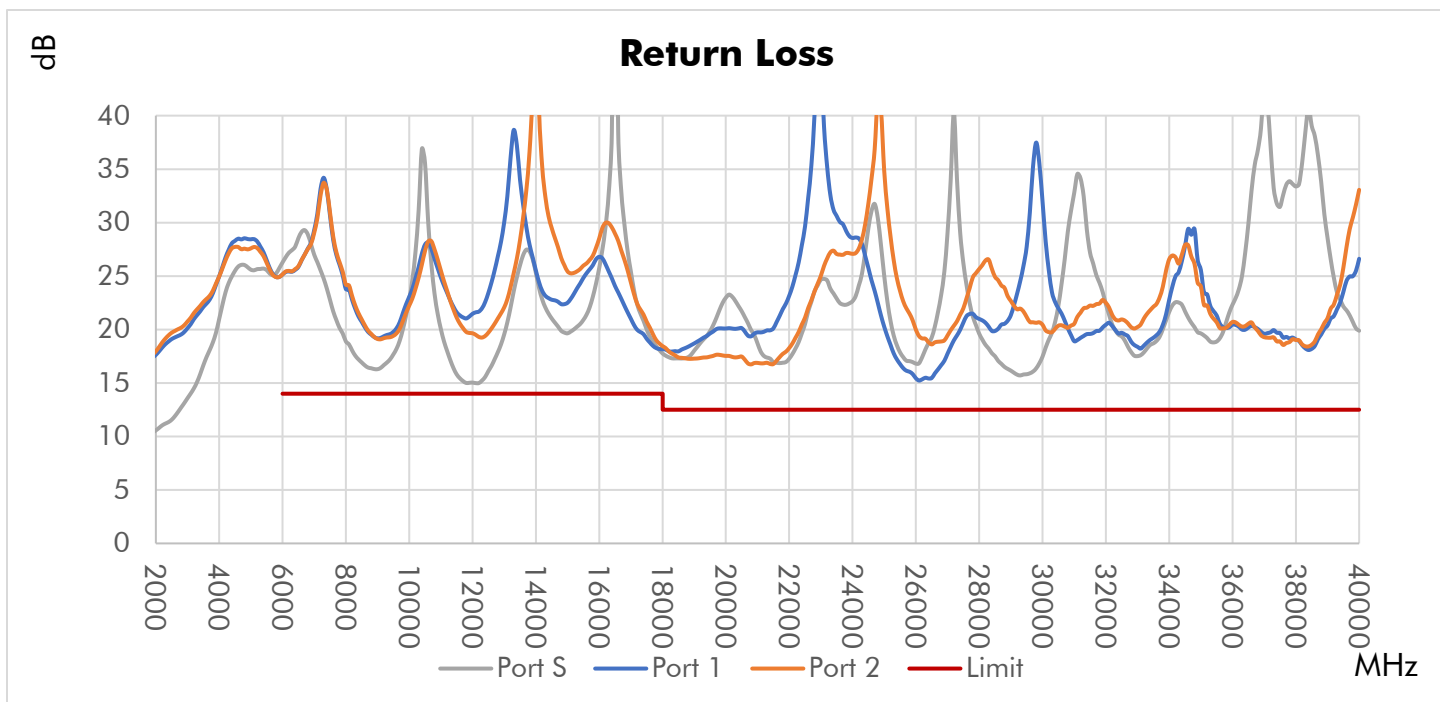
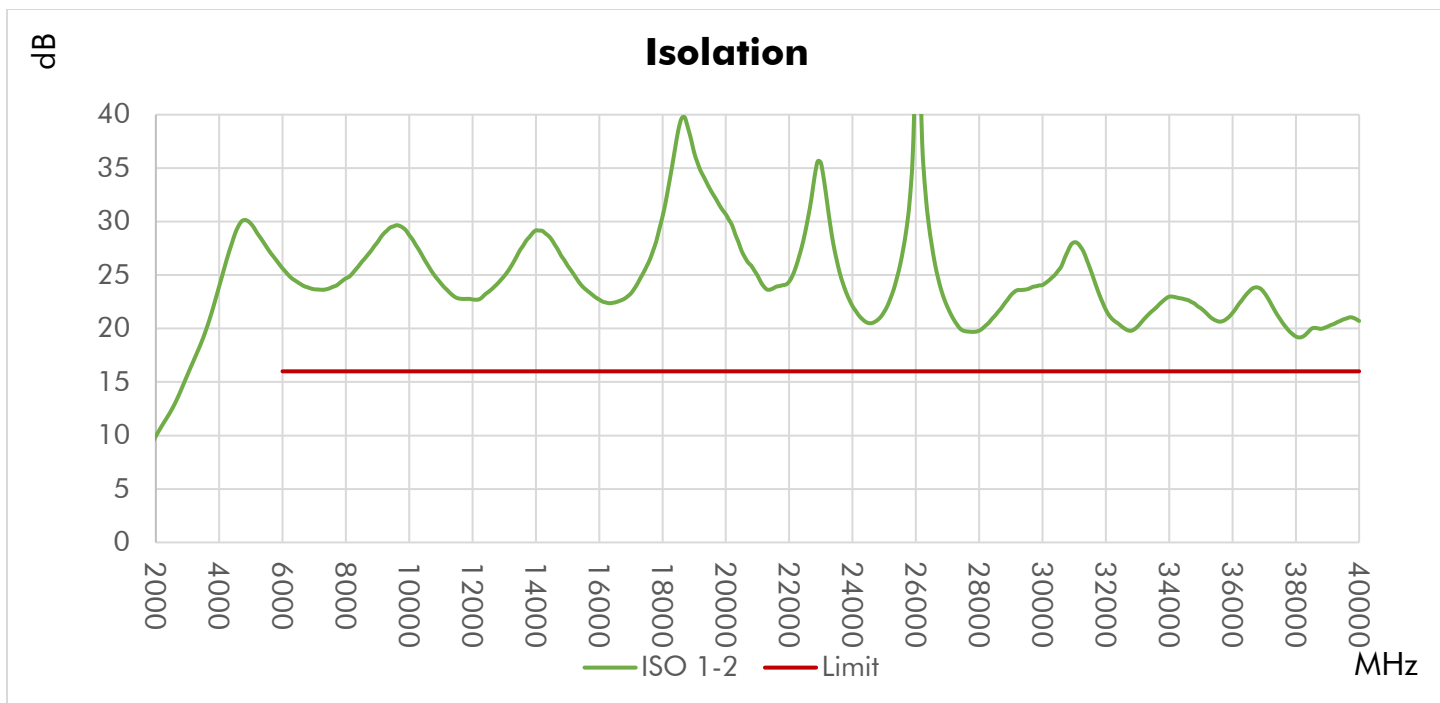
Connector Interface	2.92mm Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	22.7 g (0.8 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8548.00.0000
ECCN	EAR99

RoHS Status ⁴	RoHS3 Compliant
REACH Status ⁴	REACH Unaffected
Enclosure Material	Aluminum
Connectors Material	Stainless Steel
Contacts Material	Beryllium Copper, Gold Plated
Insulators Material	Virgin PTFE
Finish	Green Paint
Country of Origin	United States of America

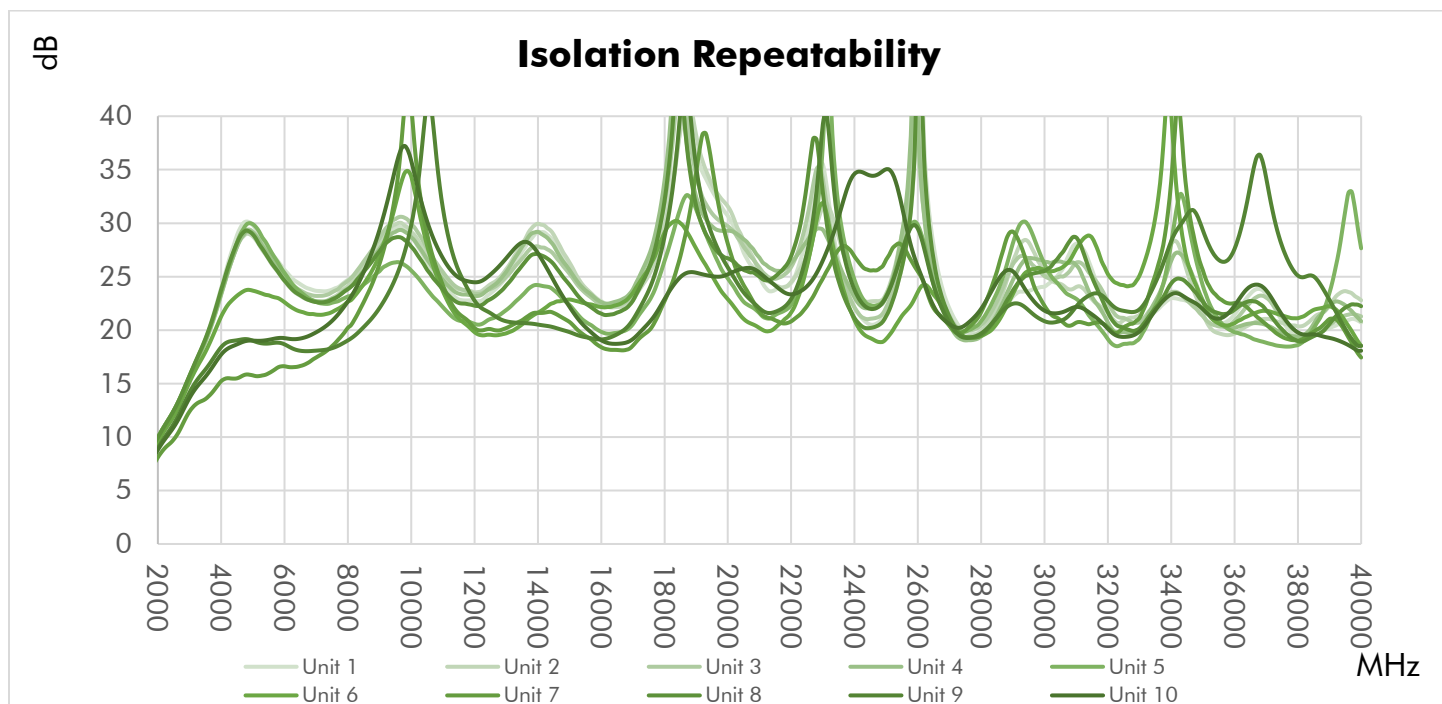
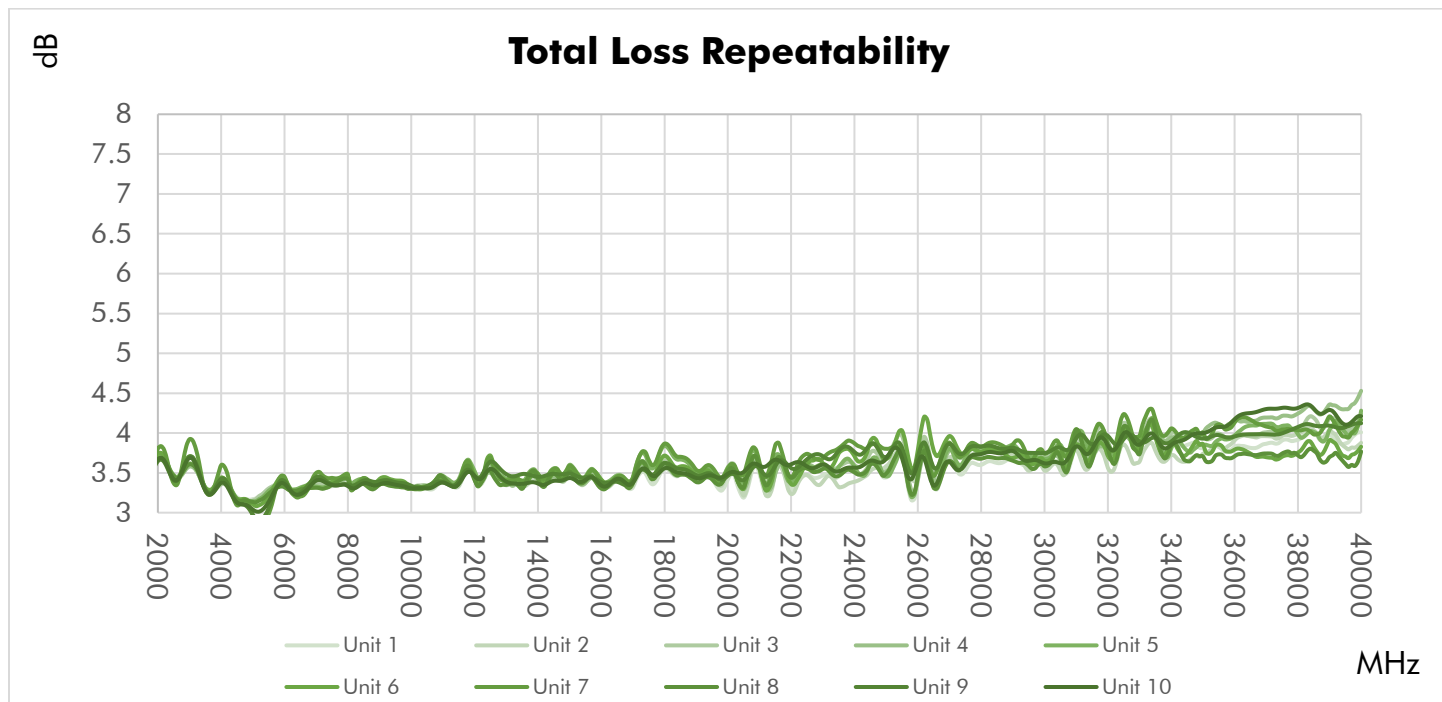
1. With reference to average.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are tested at +25 °C.
4. To the best of our knowledge at the time of publication.

Typical Performance at +25 °C





Repeatability in Production



Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Total Loss (dB)		Isolation (dB)
	Port S	Port 1	Port 2	S-1	S-2	
1000	9.97	12.79	12.79	3.63	3.63	5.57
2000	10.57	17.63	17.96	3.71	3.69	9.94
3000	13.58	20.13	20.75	3.61	3.56	15.69
4000	20.98	24.97	24.96	3.37	3.34	23.95
5000	25.60	28.44	27.59	3.17	3.14	29.81
6000	26.27	25.14	25.16	3.37	3.35	25.63
7000	27.00	29.30	29.04	3.38	3.36	23.67
8000	18.89	23.79	24.21	3.40	3.40	24.70
9000	16.29	19.18	19.12	3.38	3.37	28.08
10000	22.80	23.05	22.23	3.31	3.29	28.74
11000	20.05	24.87	25.51	3.38	3.38	24.24
12000	15.04	21.47	19.65	3.52	3.59	22.72
13000	19.55	30.03	22.07	3.42	3.47	24.91
14000	25.31	25.53	53.63	3.40	3.44	29.18
15000	19.64	22.50	25.43	3.51	3.52	25.90
16000	25.73	26.80	28.50	3.40	3.47	22.72
17000	25.43	21.01	24.41	3.32	3.39	23.28
18000	17.77	18.16	18.45	3.55	3.63	30.47
19000	18.03	18.70	17.28	3.40	3.53	36.43
20000	22.98	20.09	17.53	3.42	3.55	30.68
21000	18.71	19.74	16.88	3.49	3.72	24.96
22000	17.27	23.15	18.27	3.30	3.33	24.39
23000	24.67	45.64	25.02	3.47	3.48	35.49
24000	22.65	28.56	27.08	3.52	3.57	22.09
25000	25.06	20.28	34.88	3.44	3.61	21.57
26000	16.81	15.45	20.00	3.40	3.48	44.81
27000	29.00	17.73	19.44	3.69	3.83	22.01
28000	19.61	20.99	25.66	3.60	3.82	19.81
29000	16.16	21.34	22.68	3.71	3.95	23.11
30000	17.46	32.00	20.45	3.57	3.77	24.07
31000	32.75	18.91	20.53	3.86	3.92	28.06
32000	22.38	20.45	22.50	3.79	3.81	21.76
33000	17.51	18.39	20.23	3.80	4.06	20.18
34000	21.64	22.78	26.57	3.86	4.16	22.98
35000	19.64	25.58	24.03	3.81	4.16	21.90
36000	22.32	20.47	20.71	3.82	4.20	21.46
37000	43.04	19.60	19.28	3.86	4.21	23.36
38000	33.38	19.07	19.02	3.91	4.24	19.26
39000	28.60	20.38	21.06	3.98	4.29	20.18
40000	19.89	26.62	33.06	4.01	4.41	20.71

Simplified Electrical Schematic

