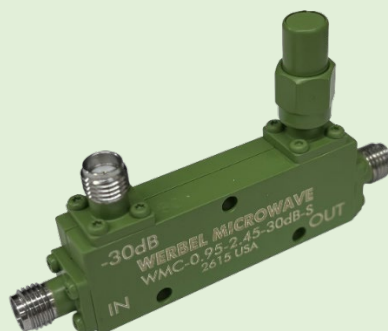


Directional Coupler, 0.95-2.45 GHz, 10 dB, SMA Female

WMC-0.95-2.45-10dB-S



This directional coupler operates from 0.95 to 2.45 GHz and is well suited for L-band and lower microwave applications requiring reliable signal sampling and monitoring. The frequency range covers many GPS/GNSS, telemetry, navigation, communications, and wireless systems, making the coupler a practical choice for test equipment, signal monitoring, transmitter applications, and general RF system integration. Its broadband coverage also supports applications spanning cellular, ISM, and other communications bands within the operating range.

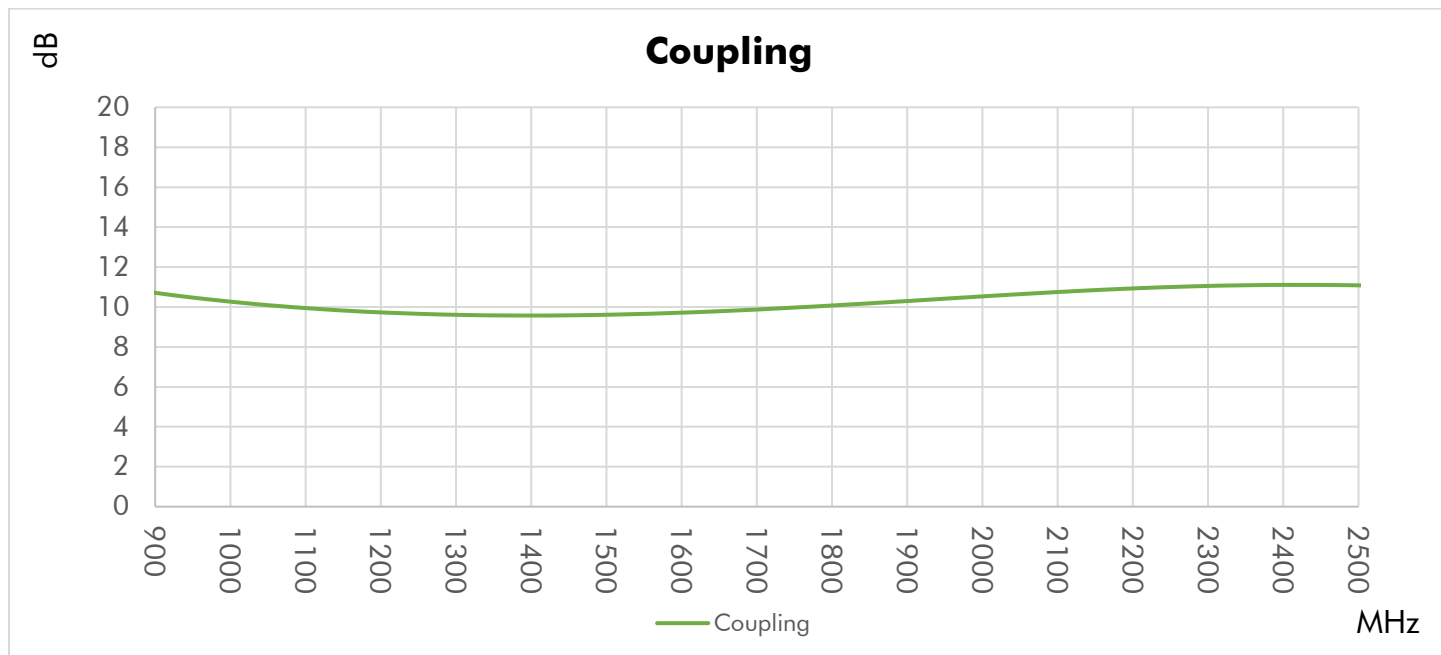
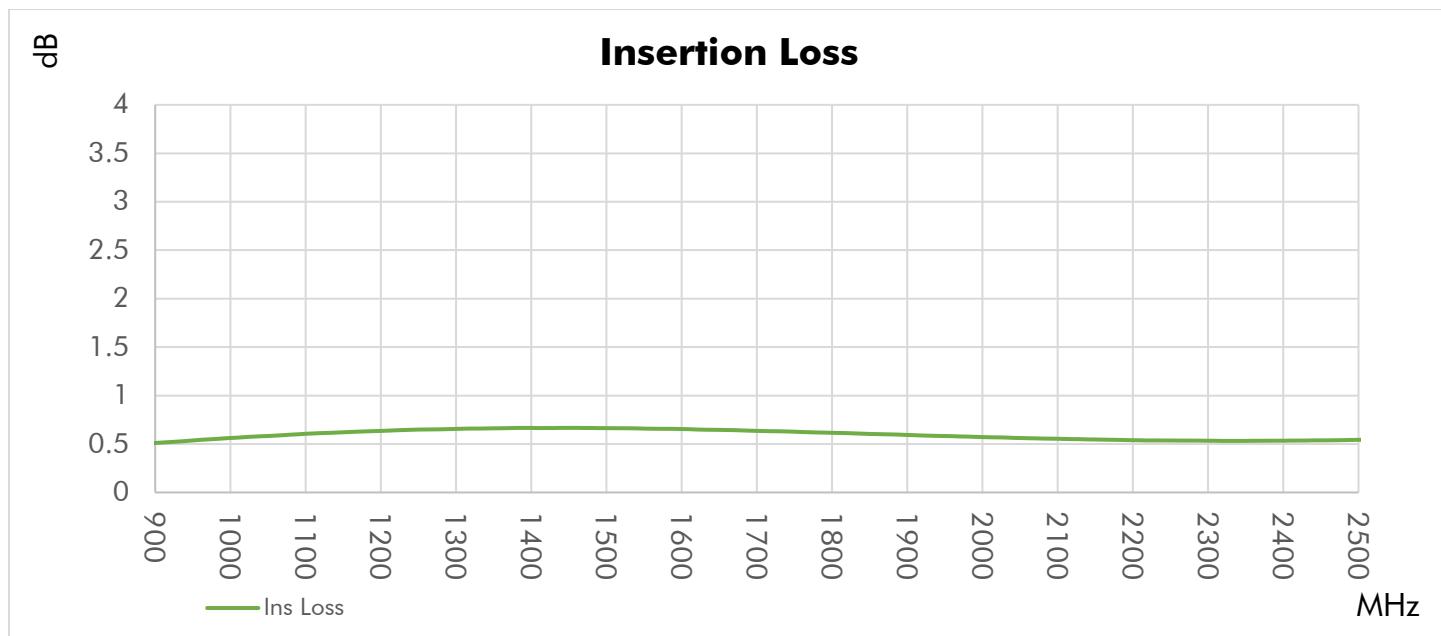
Parameter	Min.	Typ.	Max.	Unit
Frequency Range	0.95	-	2.45	GHz
Impedance	50			Ω
Coupling	-	10	± 1.25	dB
Frequency Sensitivity (Flatness)	-	± 0.75	-	dB
Mainline Loss ¹	-	0.63	0.80	dB
Directivity	20	25	-	dB
Mainline Return Loss	22	30+	-	dB
Secondary Line Return Loss	22	30+	-	dB
Isolation	-	35	-	dB
Forward Power (CW) ²	-	-	50	W
Reverse Power (CW) ²	-	-	5	W
Termination Power	-	-	1	W
DC Current	Input-Output			A

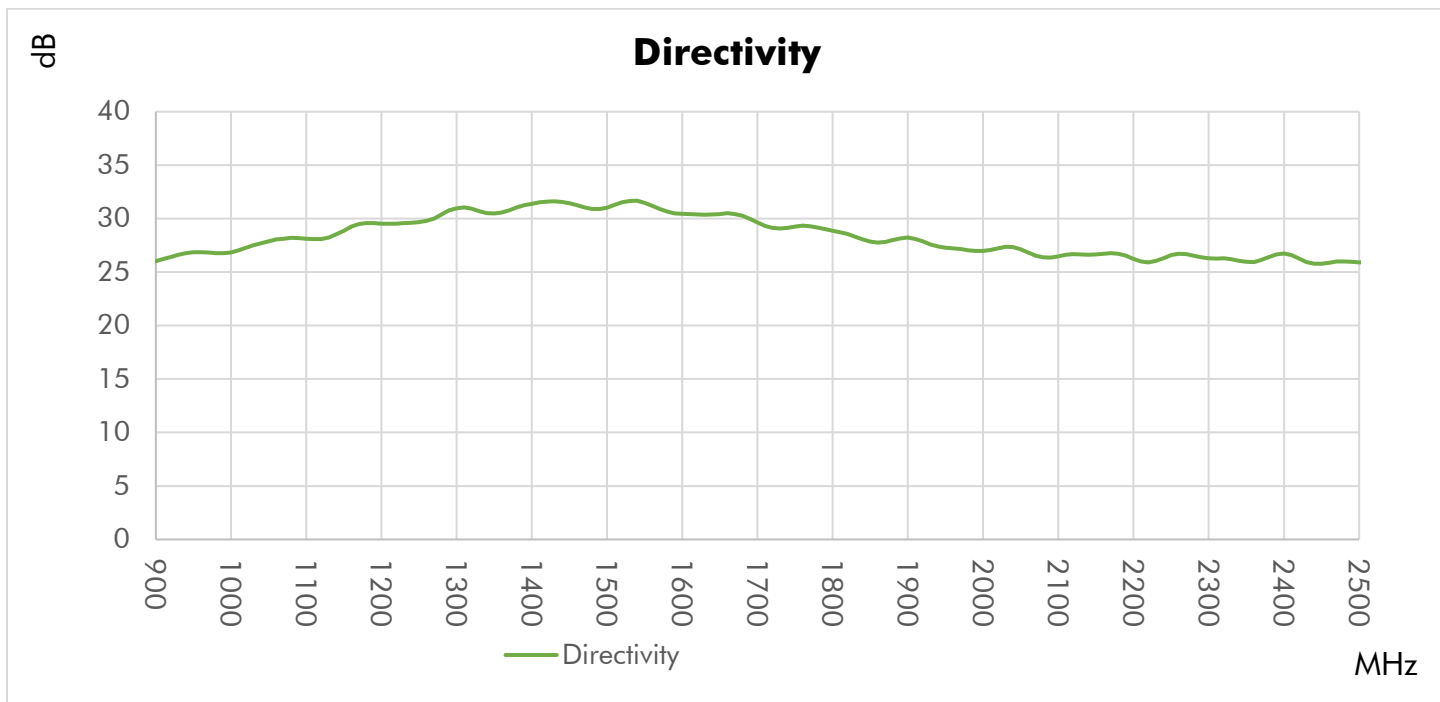
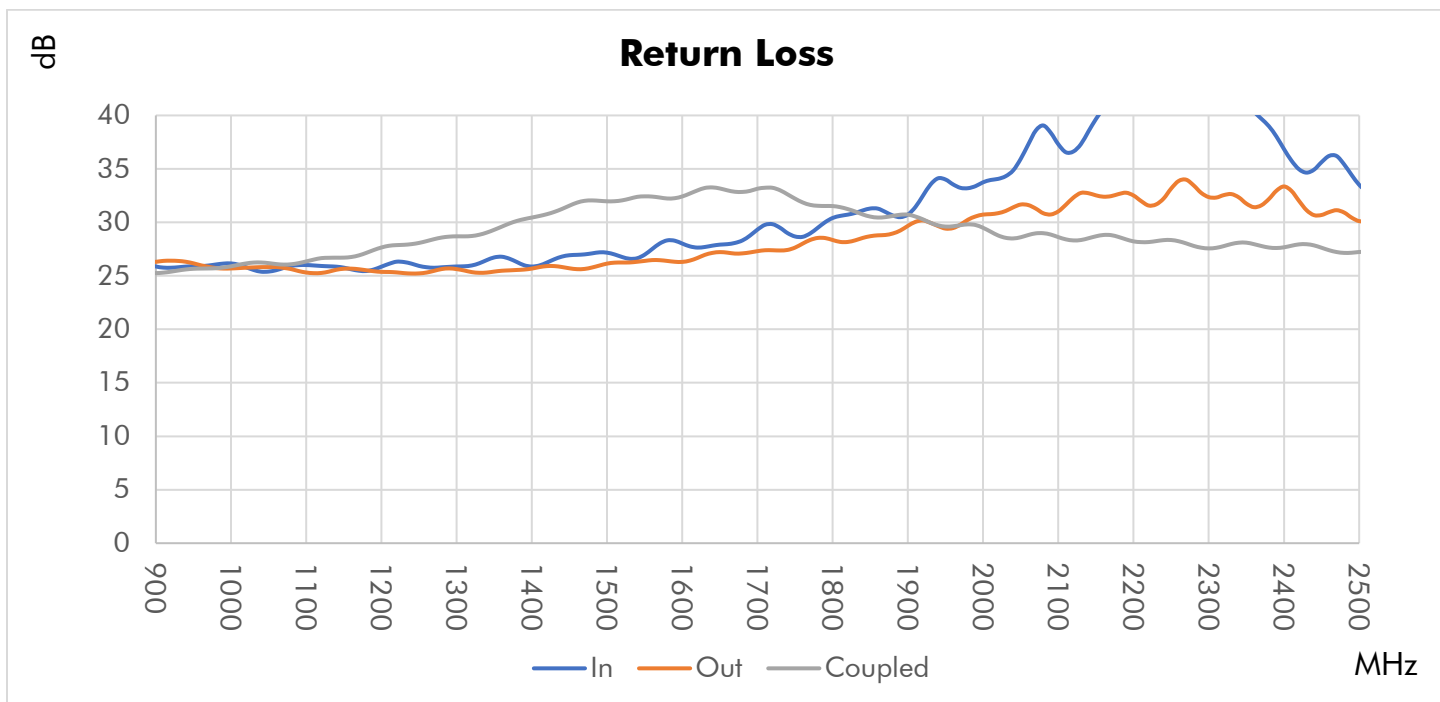
Connector Interface	SMA Female
Operating Temperature ³	-55 to +85 °C
Storage Temperature	-55 to +100 °C
Nominal Weight	28 g (1 oz)
Operating Humidity	10-90% (non-condensing)
Operating Environment	Indoor Use Only
HTSUS Code	8525.50.3035
ECCN	EAR99

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

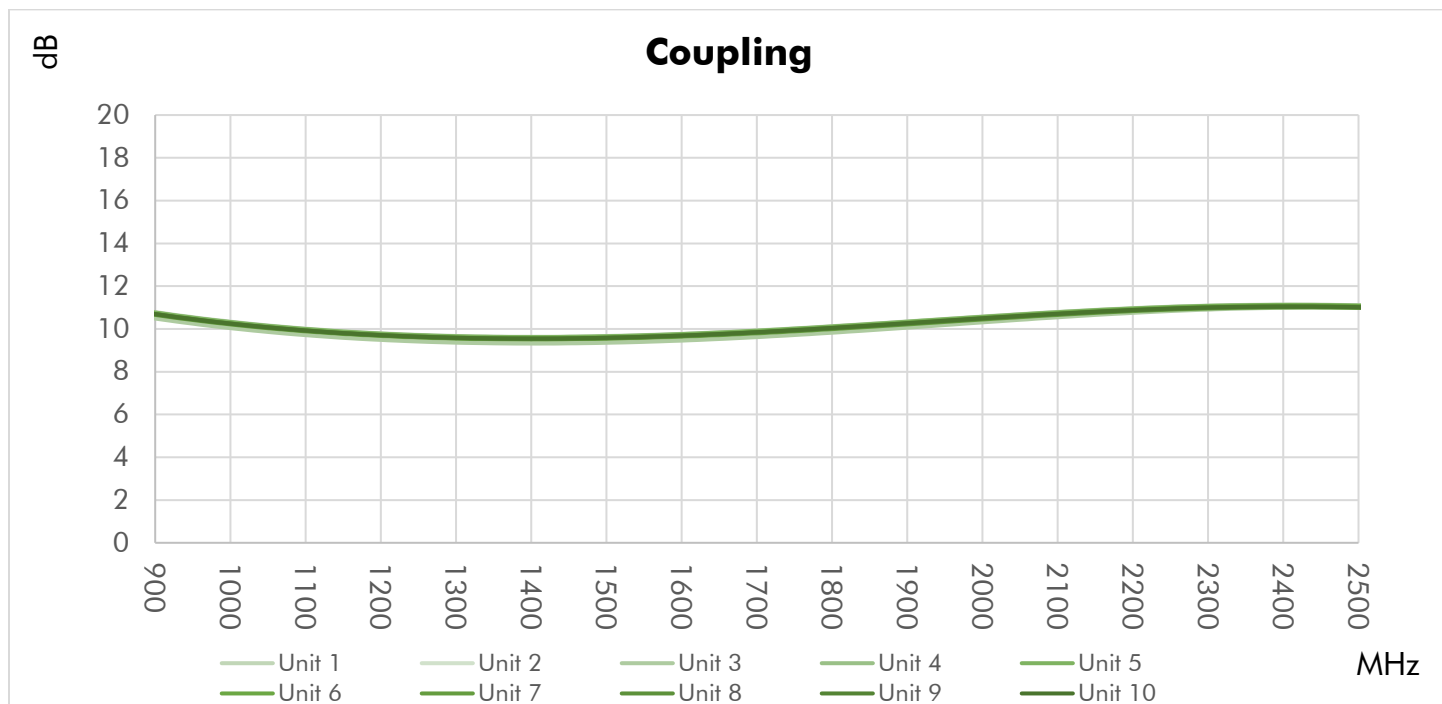
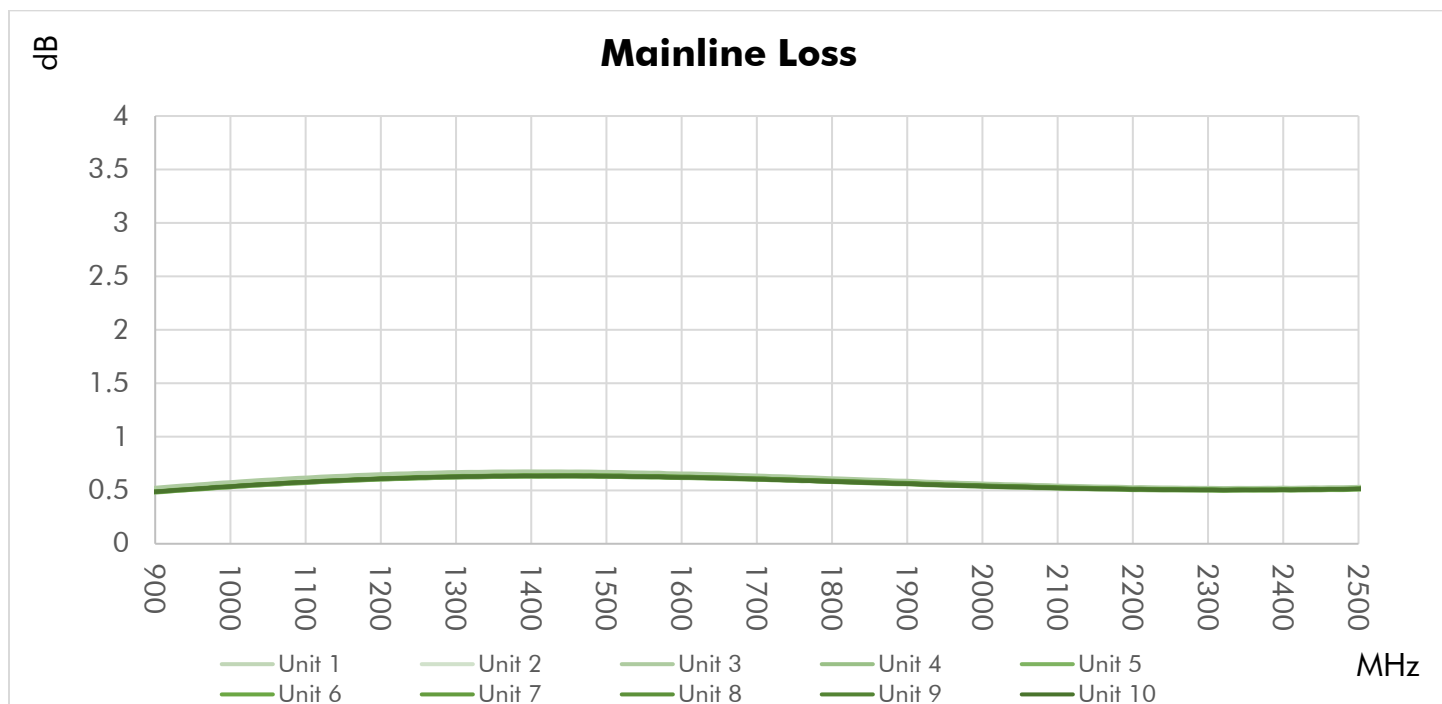
1. Mainline loss includes coupling loss.
2. All output ports should be terminated in a 50-ohm load with 1.2:1 max VSWR.
3. Electrical specifications are at +25 °C.
4. To the best of our knowledge at the time of publication.

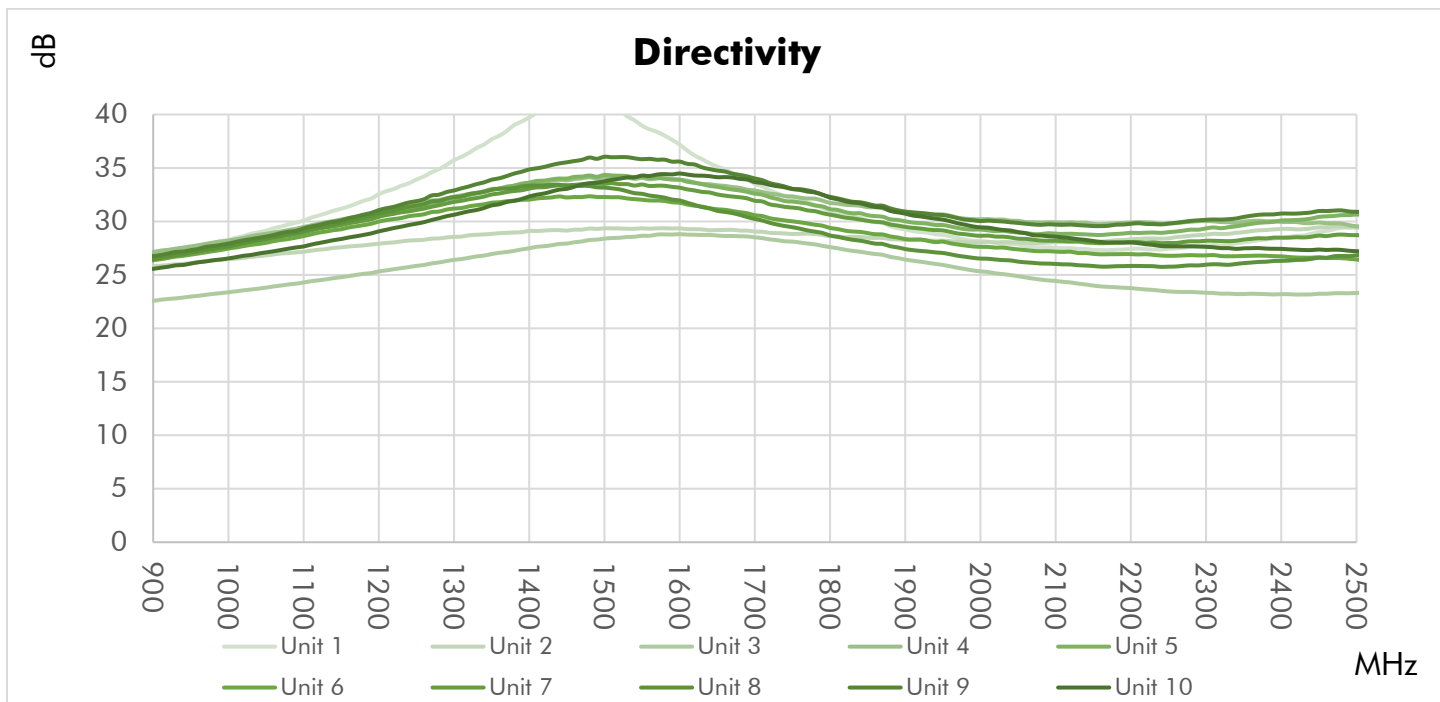
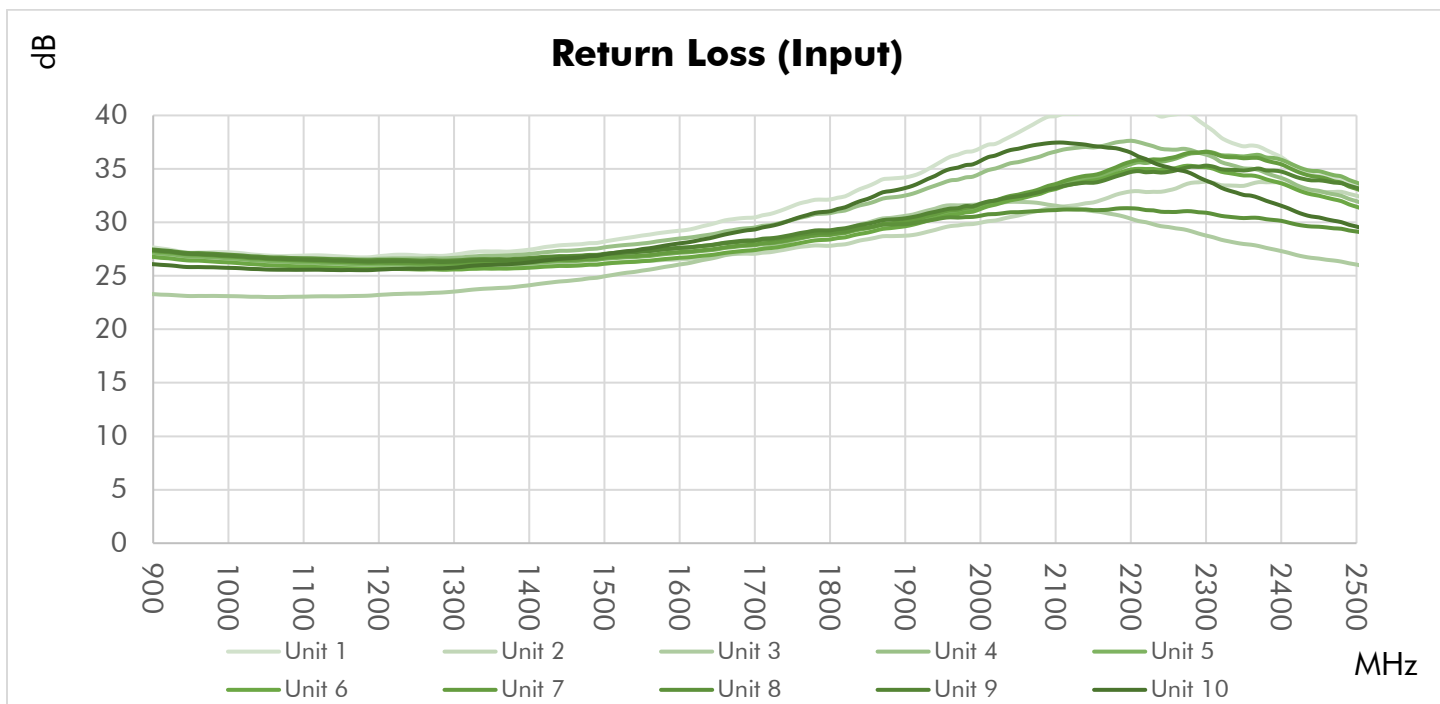
Typical Performance at +25 °C



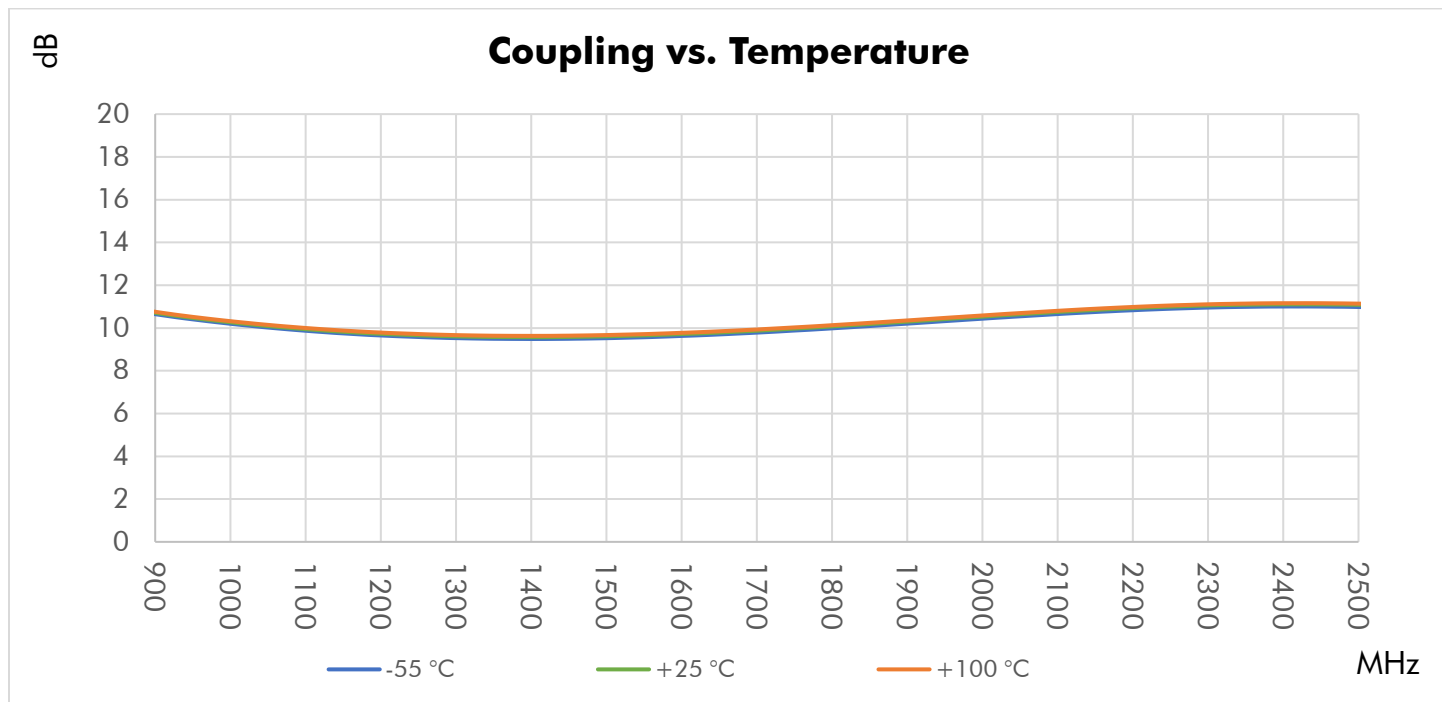
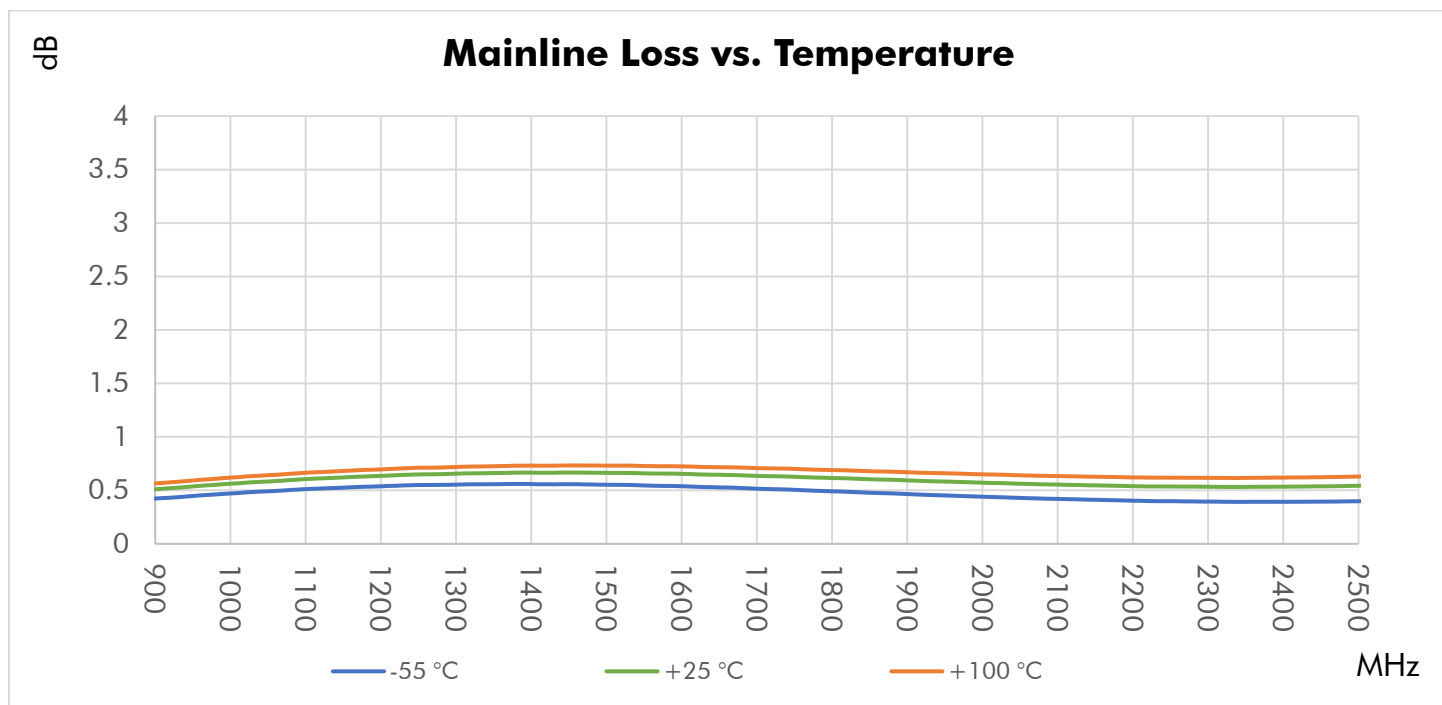


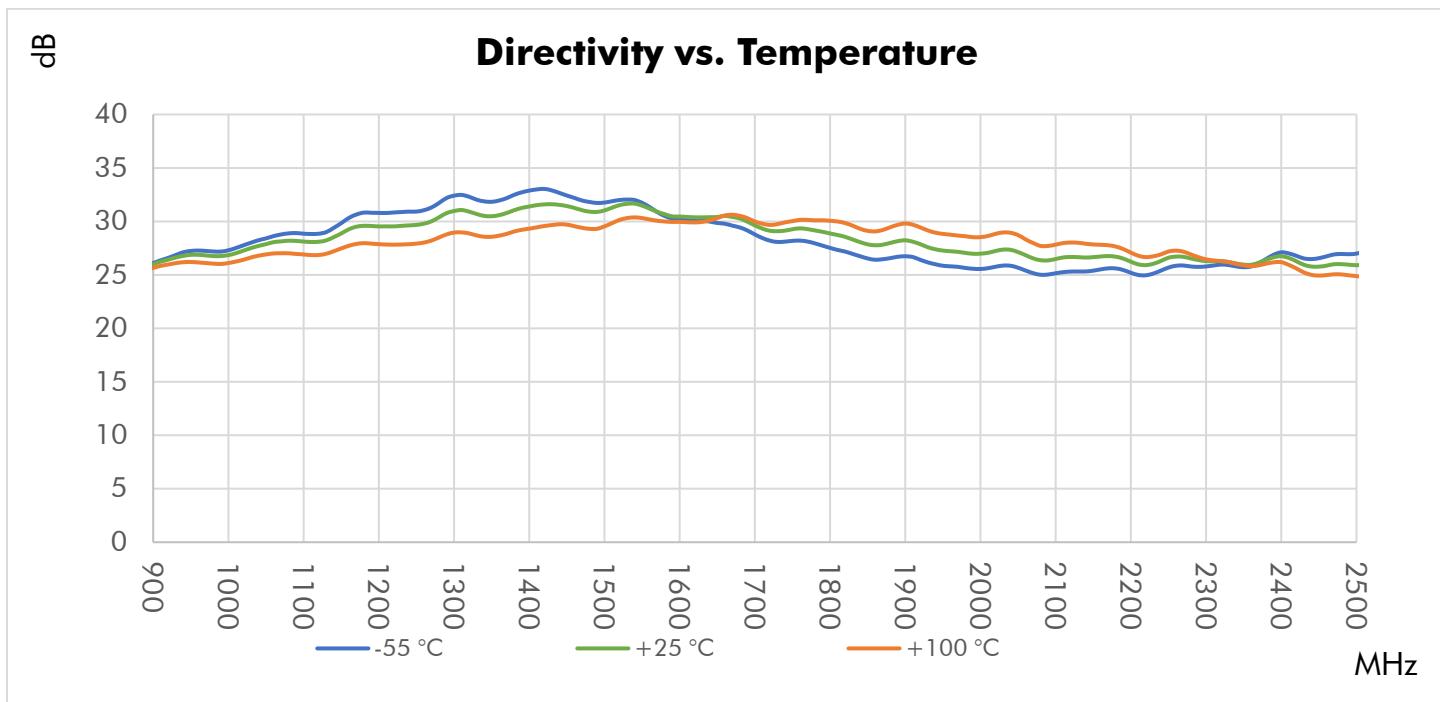
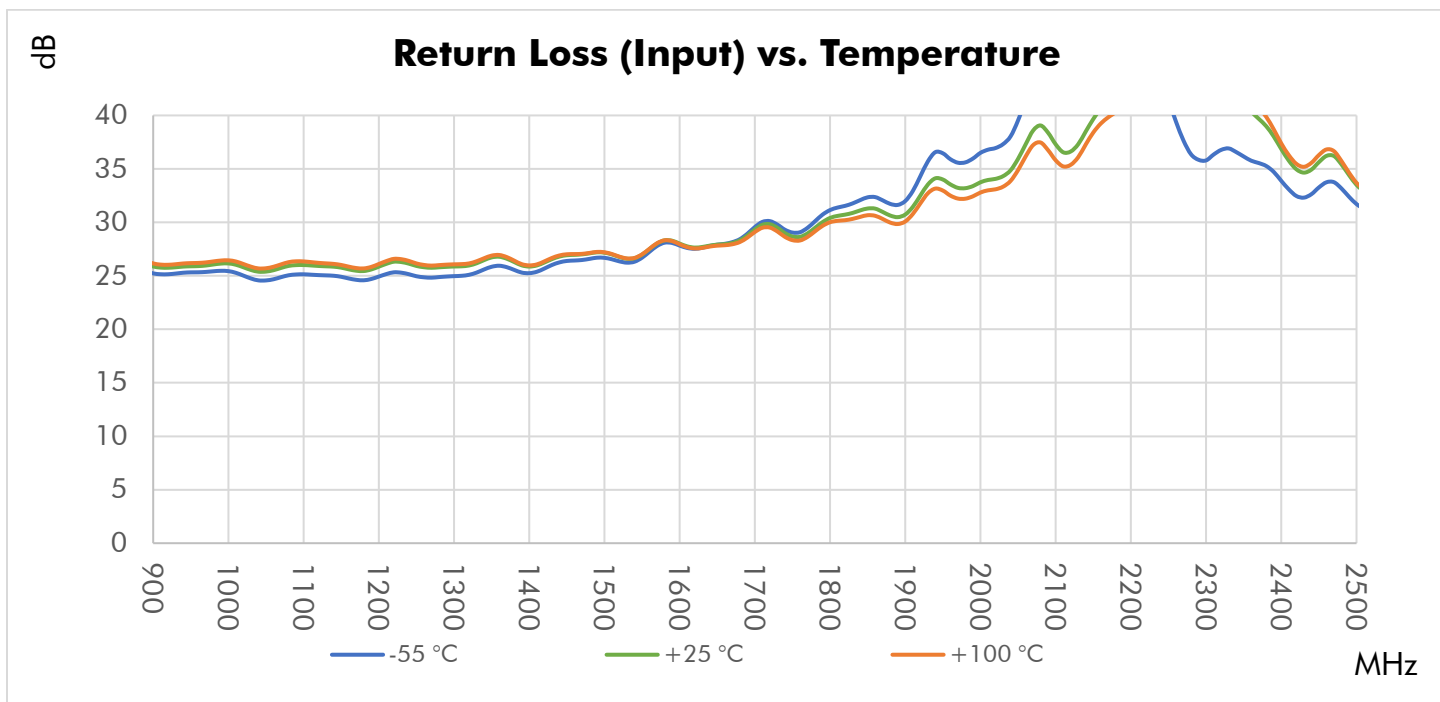
Repeatability Among Random Selection





Typical Performance Over Temperature





Typical Performance Data

Frequency (MHz)	Return Loss (dB)			Mainline Loss (dB)	Coupling (dB)	Directivity (dB)
	In	Out	Cpl.	In-Out	In-Cpl.	
500	29.97	29.72	26.68	0.25	14.30	23.21
550	28.37	29.33	26.32	0.28	13.62	23.76
600	28.19	28.97	26.21	0.32	13.03	23.95
650	27.87	27.99	25.57	0.35	12.51	24.02
700	26.90	27.88	25.46	0.38	12.05	24.66
750	27.01	27.18	25.48	0.42	11.65	24.72
800	26.35	27.10	25.51	0.45	11.29	25.37
850	26.53	26.47	25.52	0.48	10.98	25.60
900	25.88	26.31	25.26	0.51	10.71	26.02
950	25.90	26.17	25.66	0.54	10.47	26.88
1000	26.16	25.69	25.89	0.56	10.27	26.86
1100	26.01	25.31	26.35	0.61	9.94	28.13
1200	25.86	25.37	27.65	0.64	9.73	29.54
1300	25.88	25.63	28.70	0.66	9.61	30.99
1400	25.87	25.68	30.45	0.67	9.57	31.38
1500	27.17	26.15	31.97	0.66	9.61	31.02
1600	28.02	26.30	32.43	0.65	9.72	30.44
1700	29.33	27.31	33.15	0.64	9.87	29.64
1800	30.42	28.35	31.52	0.62	10.07	28.86
1900	30.73	29.68	30.72	0.59	10.30	28.24
2000	33.75	30.73	29.49	0.57	10.53	26.98
2100	37.30	31.03	28.62	0.55	10.75	26.49
2200	44.07	32.51	28.22	0.54	10.93	26.23
2300	40.75	32.36	27.57	0.53	11.05	26.28
2400	36.86	33.36	27.67	0.53	11.10	26.76
2500	33.51	30.12	27.23	0.54	11.08	25.91
2600	32.01	29.07	27.00	0.56	11.00	25.30
2700	29.10	27.64	25.97	0.58	10.86	24.43
2800	26.88	26.50	25.04	0.60	10.70	23.52
2900	25.54	26.27	23.81	0.63	10.53	23.13
3000	24.52	24.79	22.72	0.65	10.37	22.01

