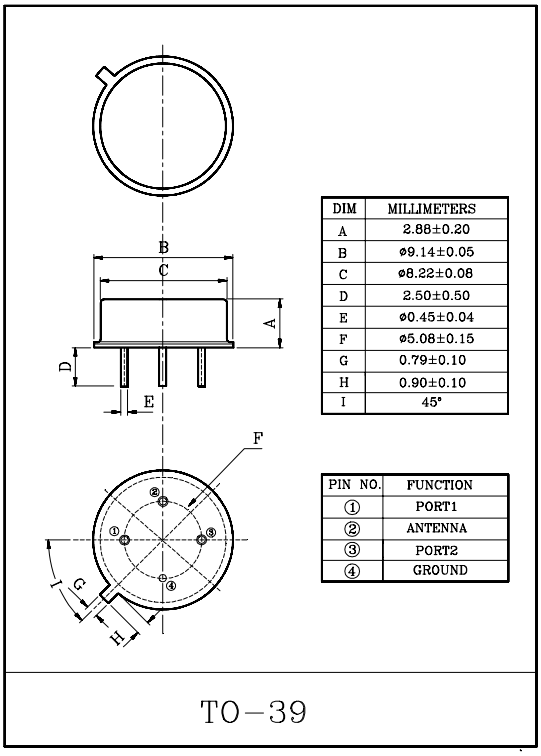
RF Duplexer for Cordless phone ISM

- High stability and reliability with good performance and no adjustment.
- Wide and sharp pass band characteristics.
- Low insertion loss and deep stop band attenuation for interference.



DIM	MILLIMETERS
A	2.88±0.20
B	ø9.14±0.05
C	ø8.22±0.08
D	2.50±0.50
E	ø0.45±0.04
F	ø5.08±0.15
G	0.79±0.10
H	0.90±0.10
I	45°

PIN NO.	FUNCTION
①	PORT1
②	ANTENNA
③	PORT2
④	GROUND

TO-39

MAXIMUM RATINGS (Ta=25℃)

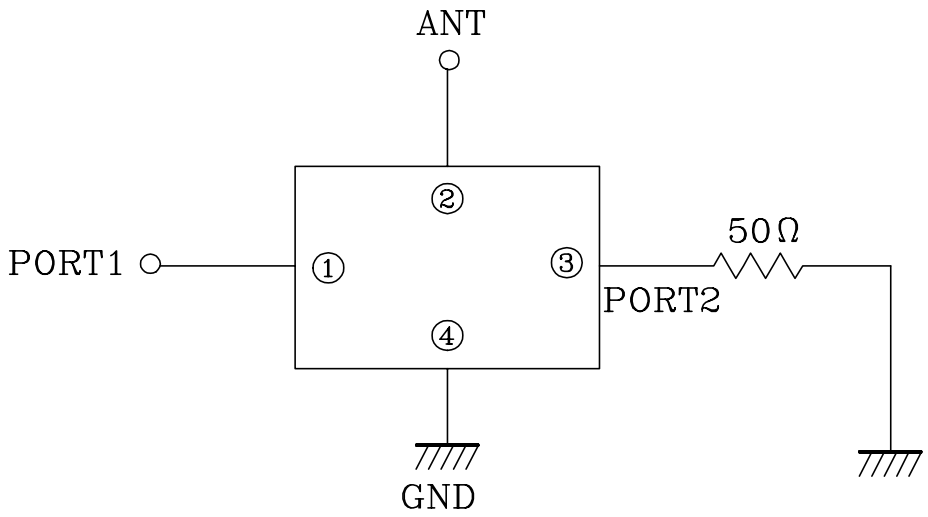
ITEM	SYMBOL	RATING	UNIT
Input Signal Level	IS_{max}	5	dBm
DC Permissive Voltage	V_{DC}	0	V
Operating Temperature Range	T_{opr}	0~+55	℃
Storage Temperature Range	T_{stg}	-40~+85	℃

ELECTRICAL CHARACTERISTICS (Temperature 25±2℃, Humidity 65±5%)

ITEMS	SYMBOL	PORT 1				PORT 2				UNIT
		TEST CONDITION	MIN.	TYP.	MAX.	TEST CONDITION	MIN.	TYP.	MAX.	
Center Frequency	fo	-	-	903.75	-	-	-	926.25	-	MHz
Bandwidth	BW_{3dB}	-	f_O±1.0	-	-	-	f_O±1.0	-	-	MHz
Insertion Loss	IL_{PASS}	f_O±1.0MHz	-	-	4.5	f_O±1.0MHz	-	-	4.5	dB
Ripple Level	A_{RIP}	f_O±1.0MHz	-	-	2.0	f_O±1.0MHz	-	-	2.0	dB
Rejection Level	IL_{STOP}	450.0~861.95MHz	47	-	-	450.0~870.0MHz	52	-	-	dB
		861.95~883.35MHz	30	-	-	870.0~882.45MHz	44	-	-	dB
		883.35~894.05MHz	5	-	-	882.45~904.75MHz	30	-	-	dB
		913.45~924.15MHz	5	-	-	904.75~905.85MHz	36	-	-	dB
		924.15~927.25MHz	38	-	-	905.85~916.55MHz	8	-	-	dB
		945.55~970.0MHz	23	-	-	935.95~946.65MHz	5	-	-	dB
		970.0~1050MHz	45	-	-	946.65~948.65MHz	30	-	-	dB
		1050~1350MHz	42	-	-	968.05~1000MHz	26	-	-	dB
		1350~1800MHz	22	-	-	1000~1350MHz	42	-	-	dB
						1350~1800MHz	22	-	-	dB
Isolation (between port 1 and 2)	$IL_{RX↔TX}$	925.25~927.25MHz	36	-	-	902.75~924.75MHz	36	-	-	dB
Input/Output Impedance	$Z_I(Z_O)$	-	-	50Ω	-	-	-	50Ω	-	-

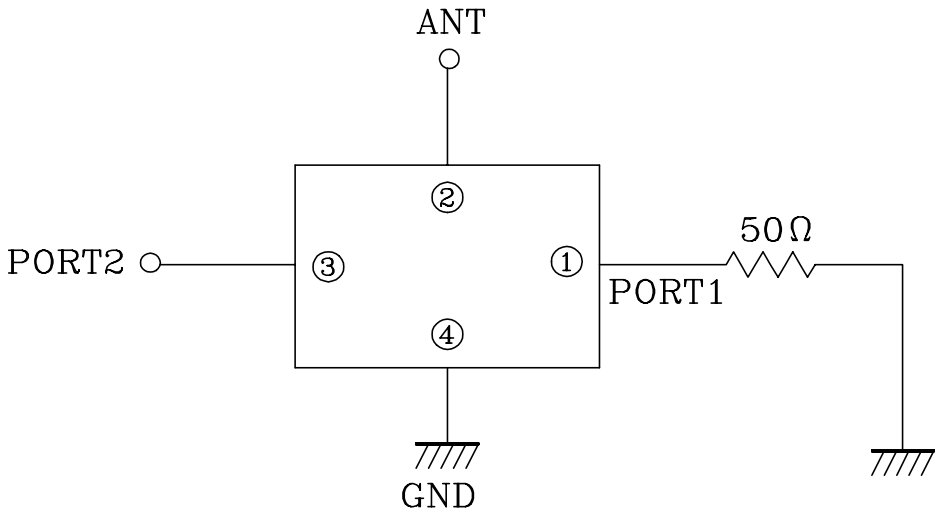
MEASUREMENT CIRCUIT

(1) BETWEEN PORT1 AND ANTENNA

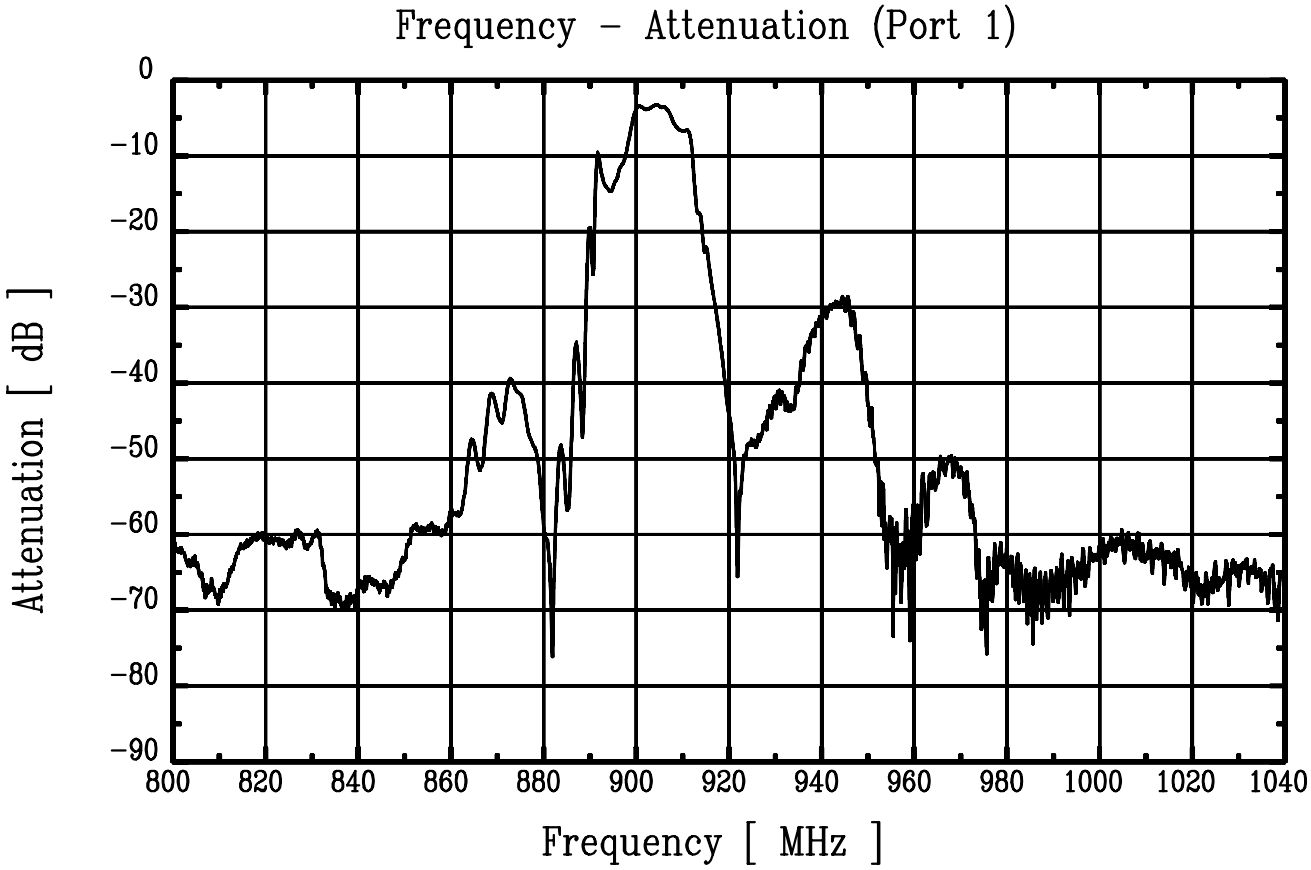


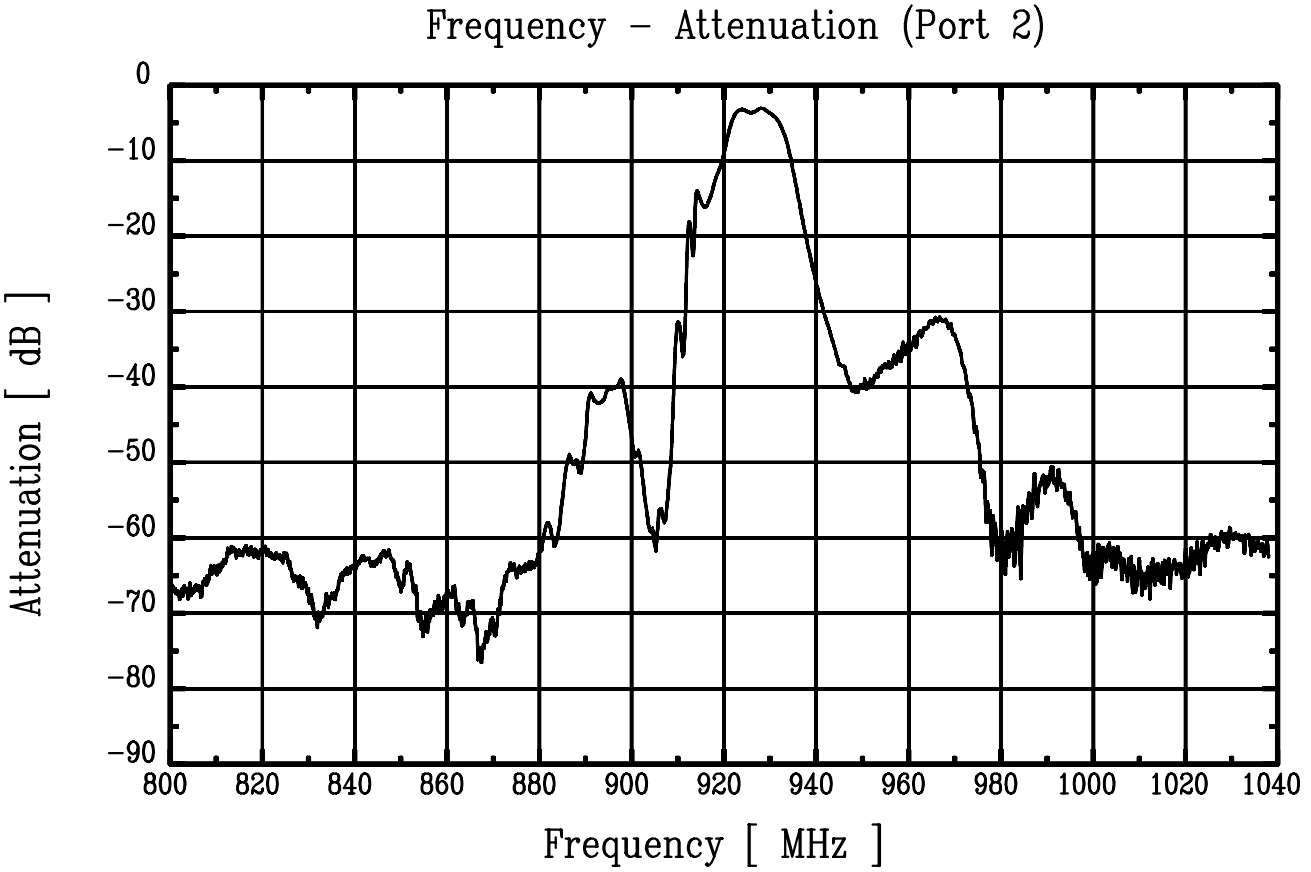
① PORT1 ② ANT ③ PORT2 ④ GND

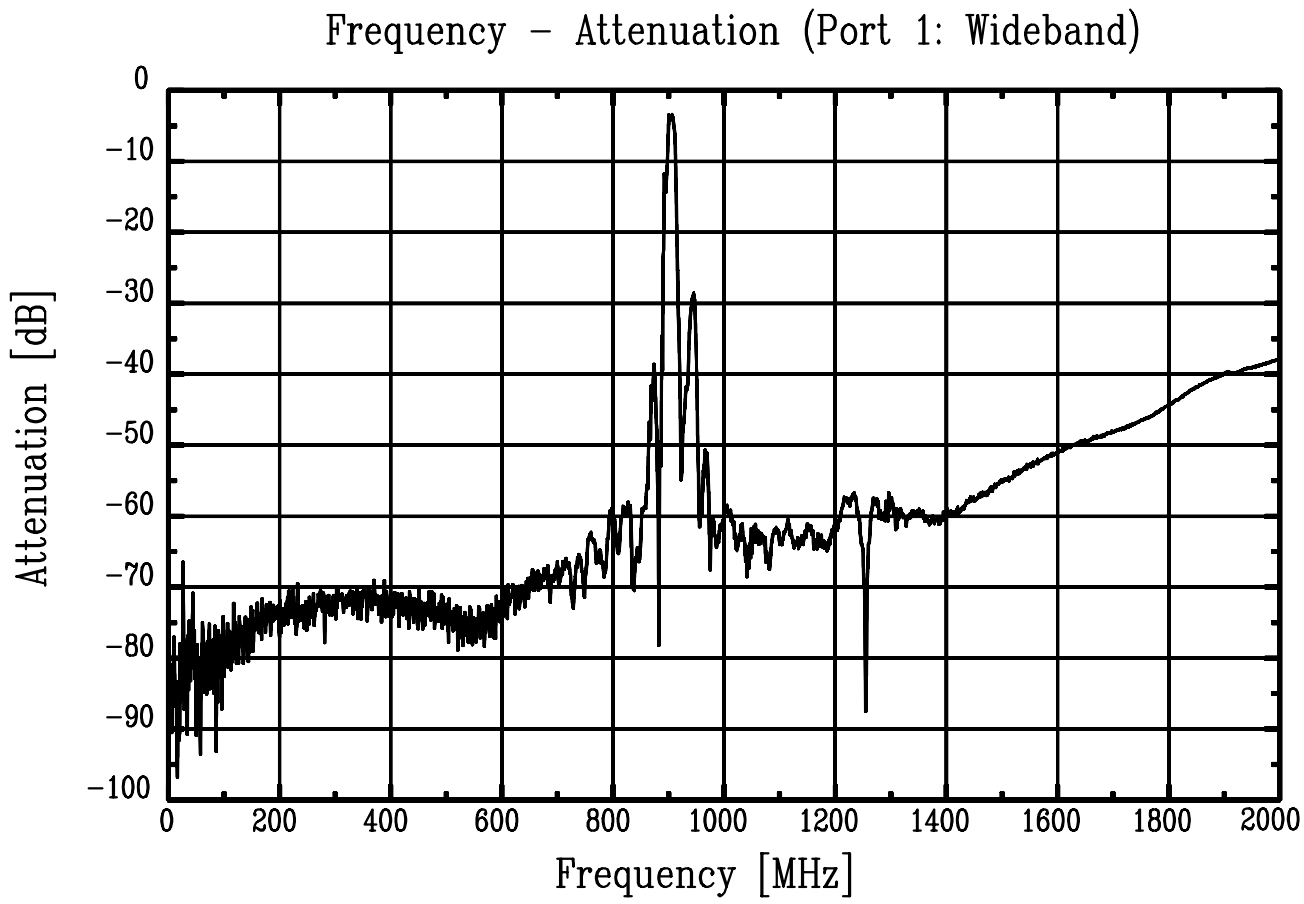
(2) BETWEEN PORT2 AND ANTENNA

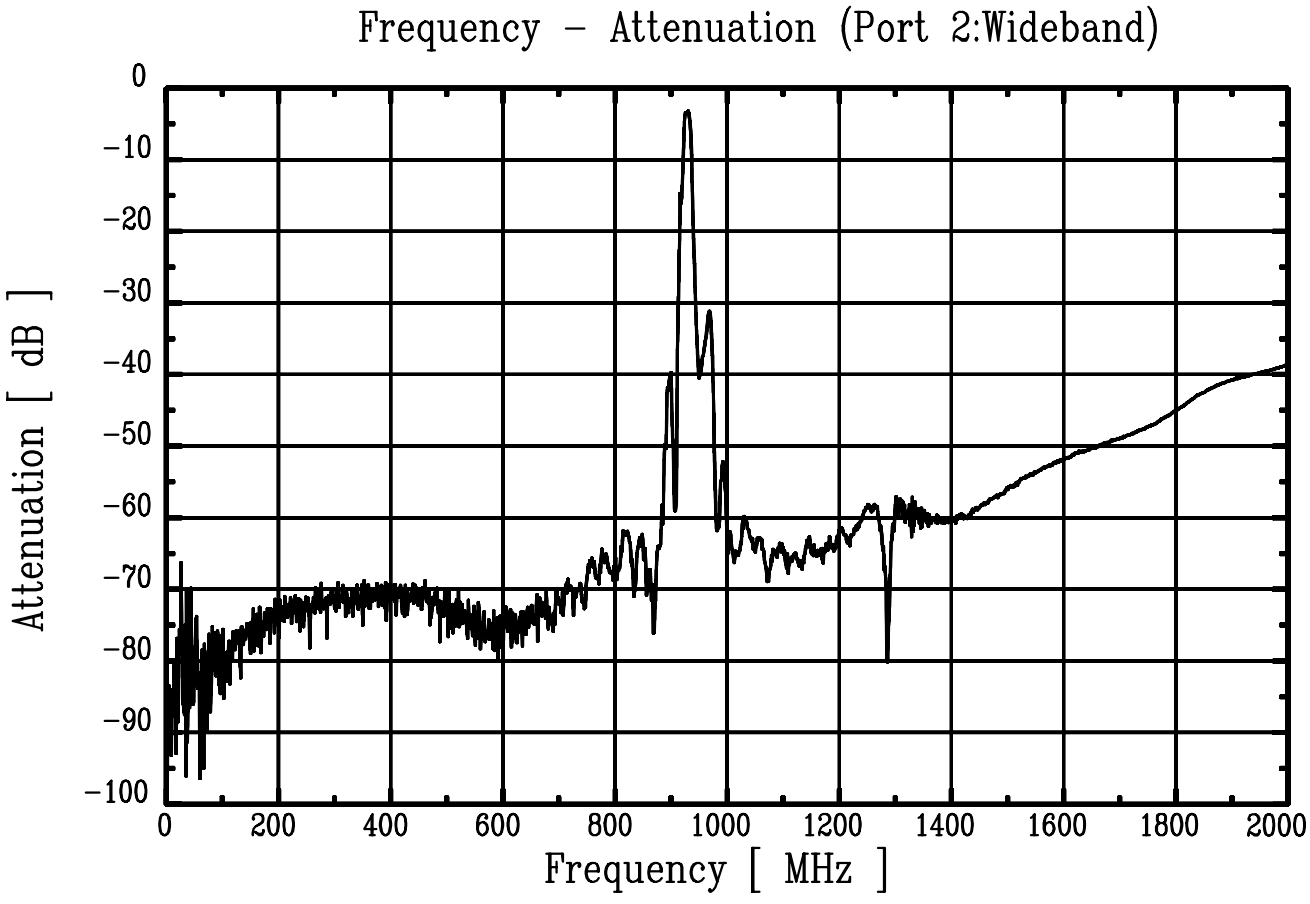


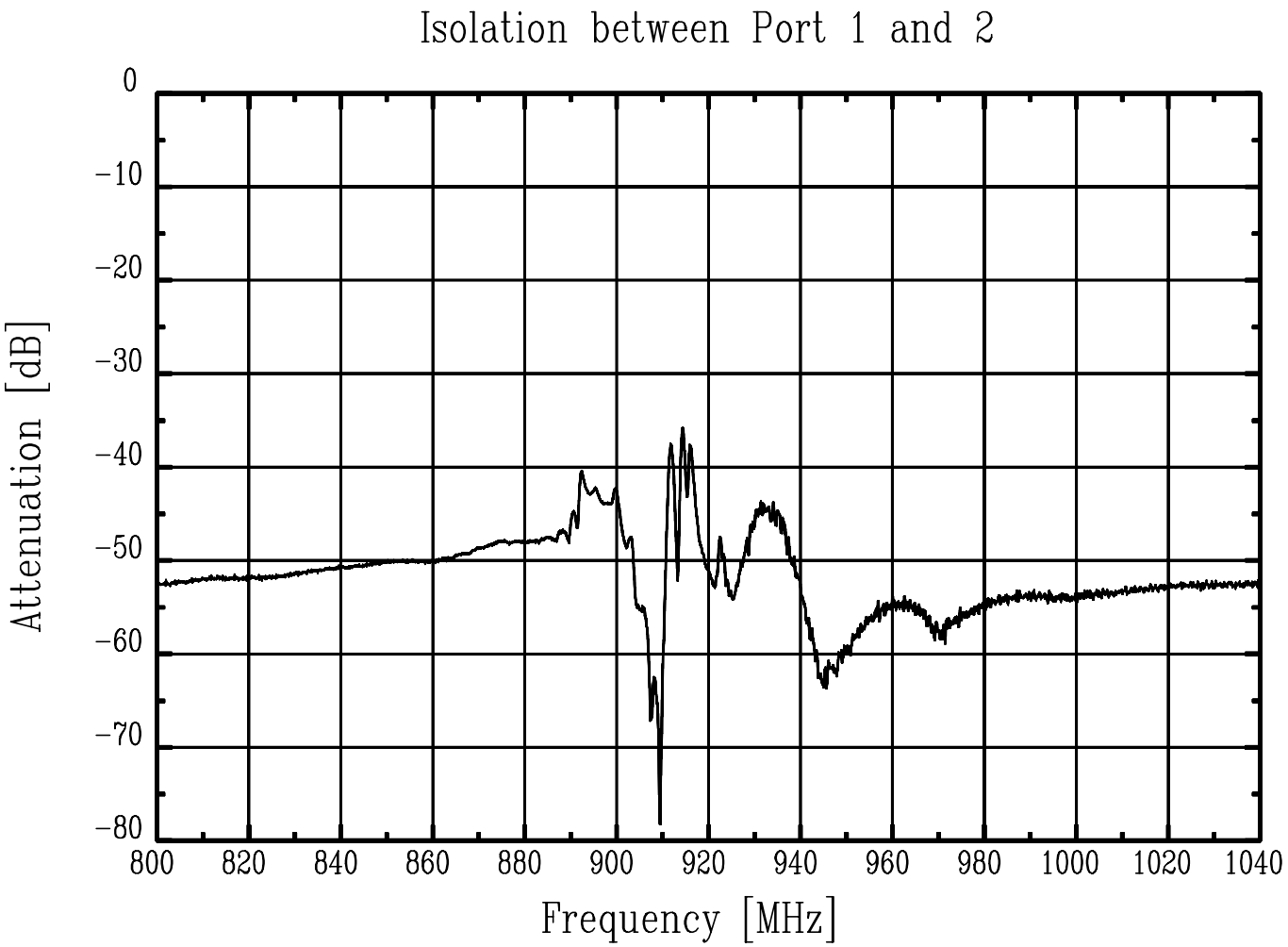
① PORT1 ② ANT ③ PORT2 ④ GND


Frequency – Attenuation (Port 1)
Attenuation [dB]
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
800
820
840
860
880
900
920
940
960
980
1000
1020
1040
Frequency [MHz]


Frequency – Attenuation (Port 2)
Attenuation [dB]
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
800
820
840
860
880
900
920
940
960
980
1000
1020
1040
Frequency [MHz]


Frequency – Attenuation (Port 1: Wideband)
Attenuation [dB]
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
0
200
400
600
800
1000
1200
1400
1600
1800
2000
Frequency [MHz]


Frequency – Attenuation (Port 2:Wideband)
Attenuation [dB]
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
0
200
400
600
800
1000
1200
1400
1600
1800
2000
Frequency [MHz]


Isolation between Port 1 and 2
Attenuation [dB]
0
-10
-20
-30
-40
-50
-60
-70
-80
800
820
840
860
880
900
920
940
960
980
1000
1020
1040
Frequency [MHz]