

KYOCERA SAW Filter

- **Band1+3+7 unbalanced-Rx Triple Filter –
Type Name : SF18-1842M8SUA1**

Dec.,9, 2025

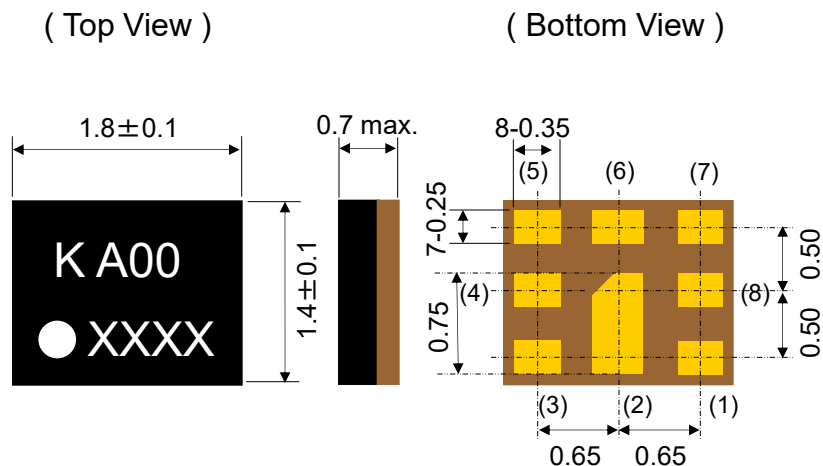
KYOCERA Corporation

Corporate Electronic Components Group

Electronic Devices Division

Dimensions & Test Circuit of SAW Duplexer

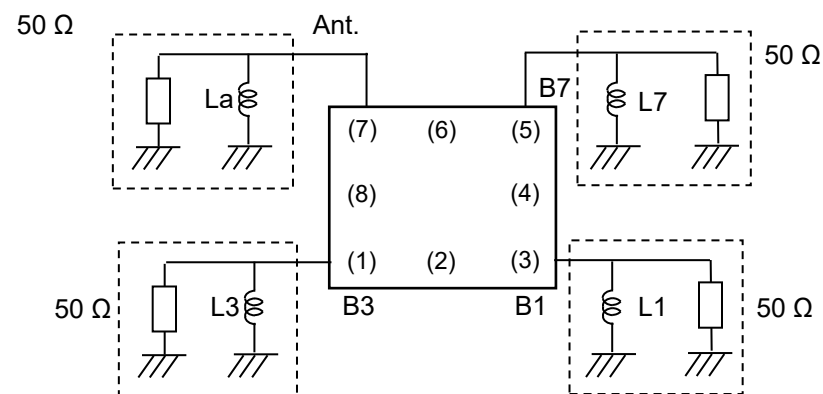
■ Dimensions



Unit : mm
 K : KYOCERA logo
 A00 : Identification no.
 ● : Index mark of pin 1
 XXXX : Production Code

Pin No.	Function
(1)	B3
(2)	GND
(3)	B1
(4)	GND
(5)	B7
(6)	GND
(7)	Ant.
(8)	GND

■ Test Circuit



La : 1.8nH (Ideal)

L3 : 6.2nH (Ideal)

L1 : 5.6nH (Ideal)

L7 : 3.0nH (Ideal)

Port extension (Time) : 100ps

Port extension (Loss@B3) : 0.14dB

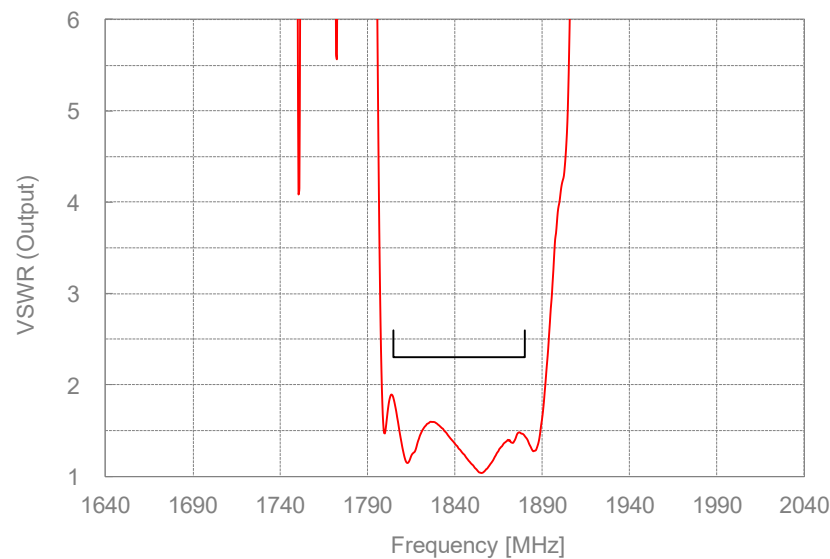
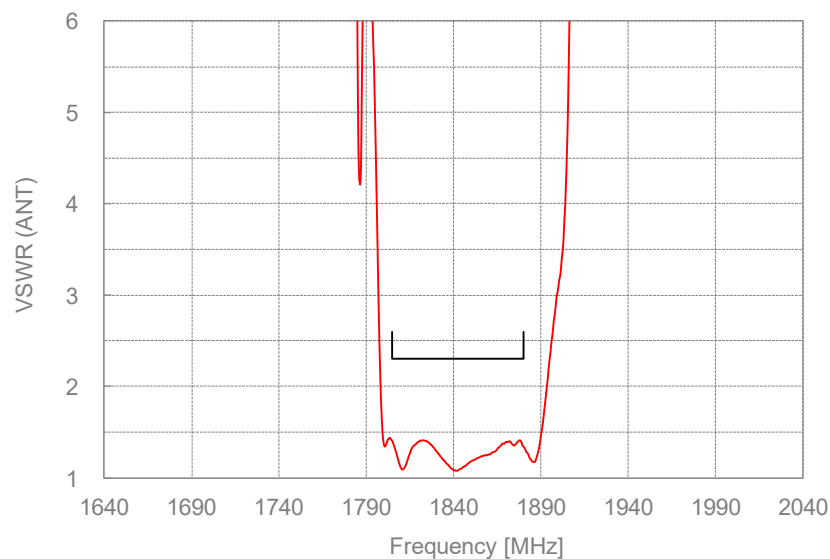
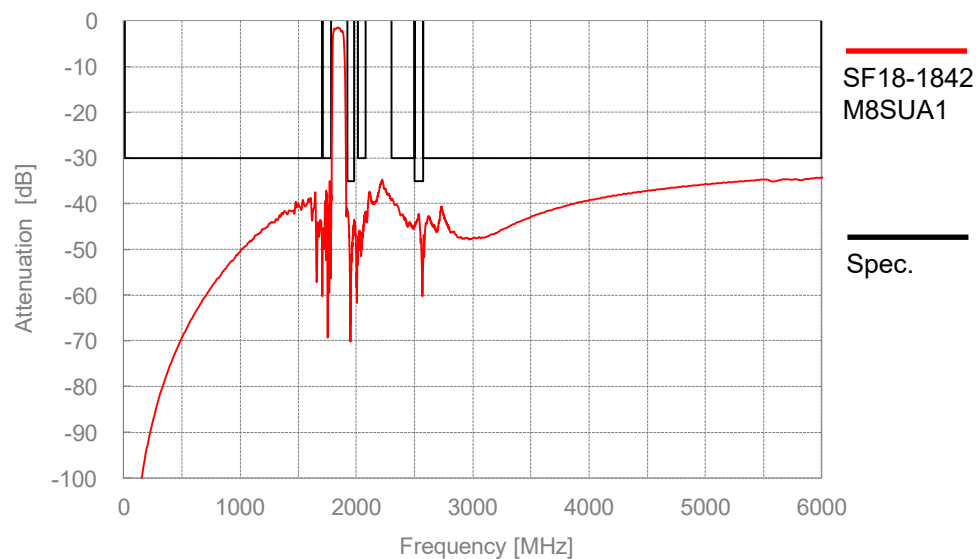
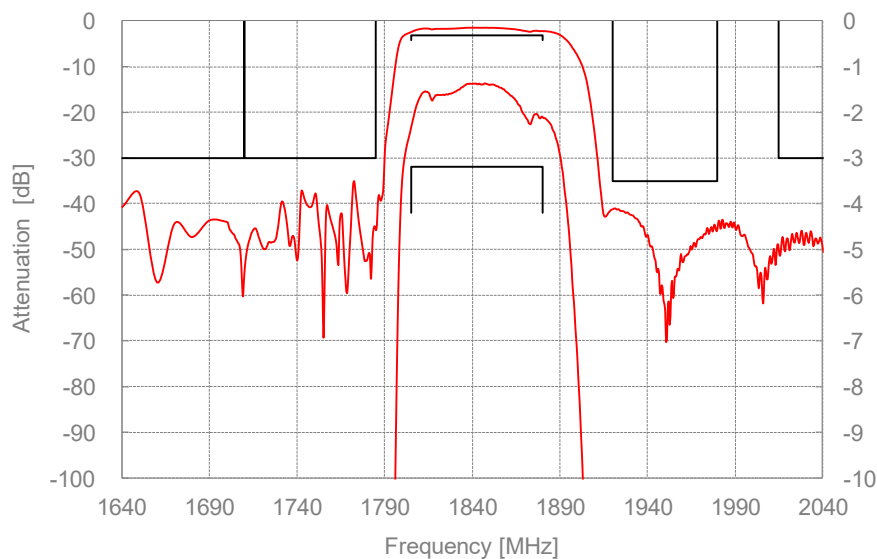
Port extension (Loss@B1) : 0.15dB

Port extension (Loss@B7) : 0.20dB

Items		Frequency (MHz)	Unit	SF18-1842M8SUA3			Notes	
				Spec				
				min.	typ.	max.		
B3	Nominal Center Frequency		-	MHz	1842			
	Insertion Loss		1805 - 1880	dB		2.3	3.2	
	Ripple at any 20MHz		1805 - 1880	dB		1.0	2.5	
	VSWR	ANT	1805 - 1880			1.4	2.3	
		Rx	1805 - 1880			1.9	2.3	
	Attenuation		10 - 1710	dB	30	38		
			1920 - 1980	dB	35	41		
			1710 - 1785	dB	30	35		
			2015 - 2075	dB	30	43		
			2500 - 2570	dB	35	42		
			2300 - 2500	dB	30	39		
			2570 - 6000	dB	30	34		
B1	Nominal Center Frequency		-	MHz	2140			
	Insertion Loss		2110 - 2170	dB		2.3	3.0	
	Ripple at any 20MHz		2110 - 2170	dB		0.7	1.6	
	VSWR	Ant	2110 - 2170			1.4	2.0	
		TRx	2110 - 2170			1.4	2.0	
	Attenuation		10 - 1920	dB	39	42		
			1920 - 1980	dB	42	51		
			1710 - 1785	dB	40	43		
			2015 - 2075	dB	20	31		
			2500 - 2570	dB	41	48		
			2300 - 2690	dB	20	38		
			2690 - 6000	dB	20	38		
B7	Nominal Center Frequency		-	MHz	2655			
	Insertion Loss		2620 - 2690	dB		2.4	3.2	
	Ripple at any 20MHz		2620 - 2690	dB		0.4	1.6	
	VSWR	Ant	2620 - 2690			1.6	2.3	
		TRx	2620 - 2690			1.4	2.3	
	Attenuation		10 - 2500	dB	27	33		
			1920 - 1980	dB	35	41		
			1710 - 1785	dB	35	39		
			2500 - 2570	dB	37	39		
			2300 - 2500	dB	30	33		
		2775 - 6000	dB	30	32			
Operating temperature			deg.C	-20 to +85				

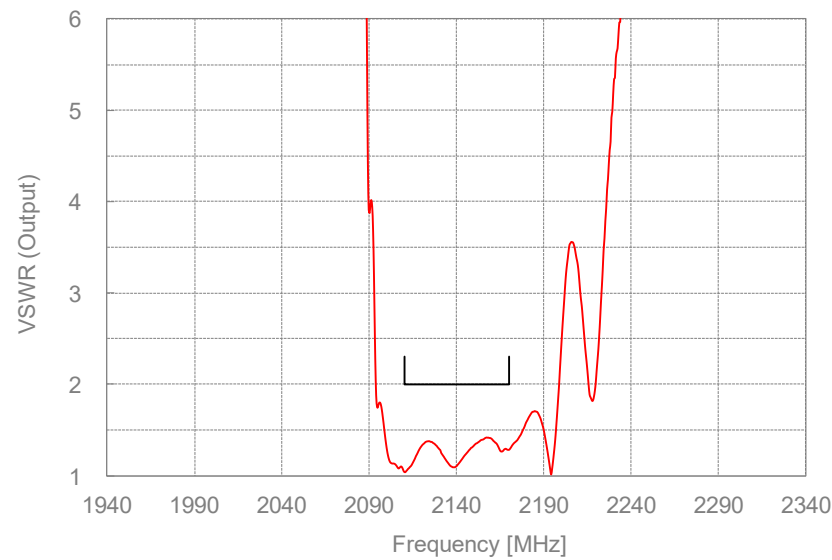
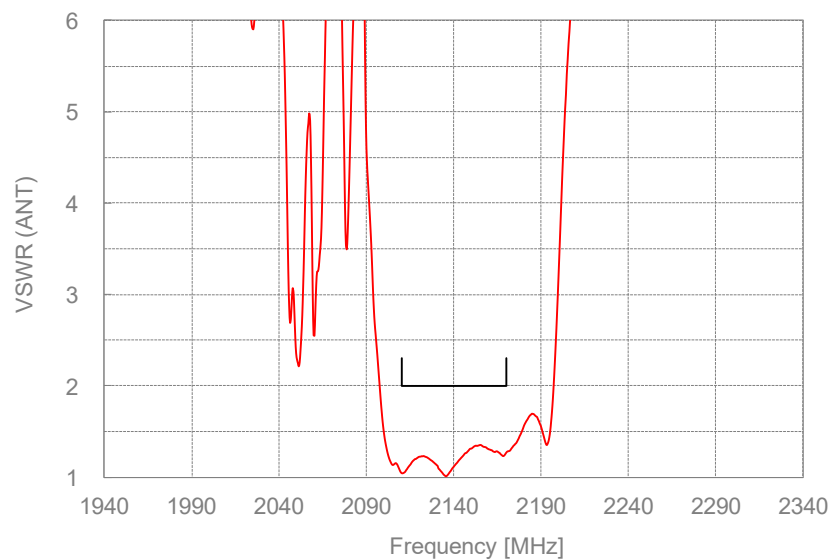
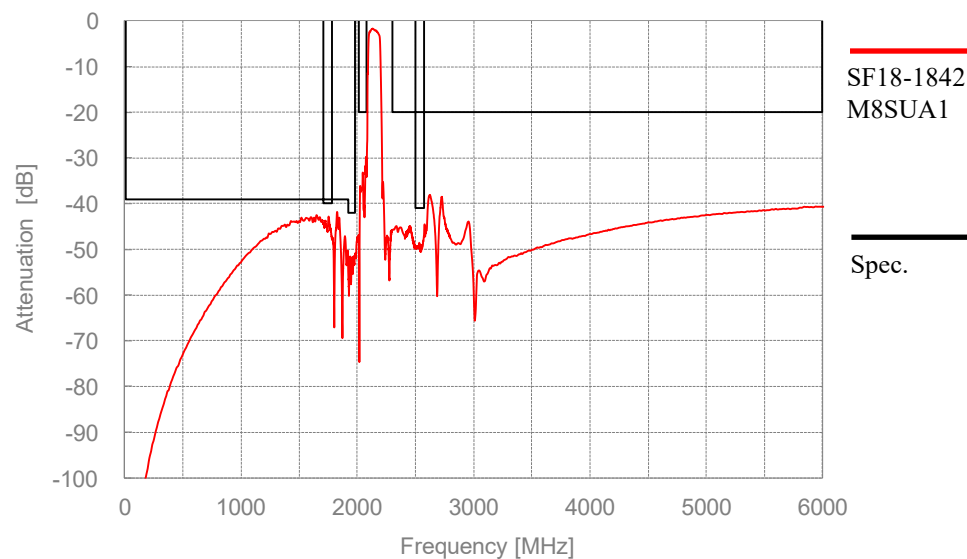
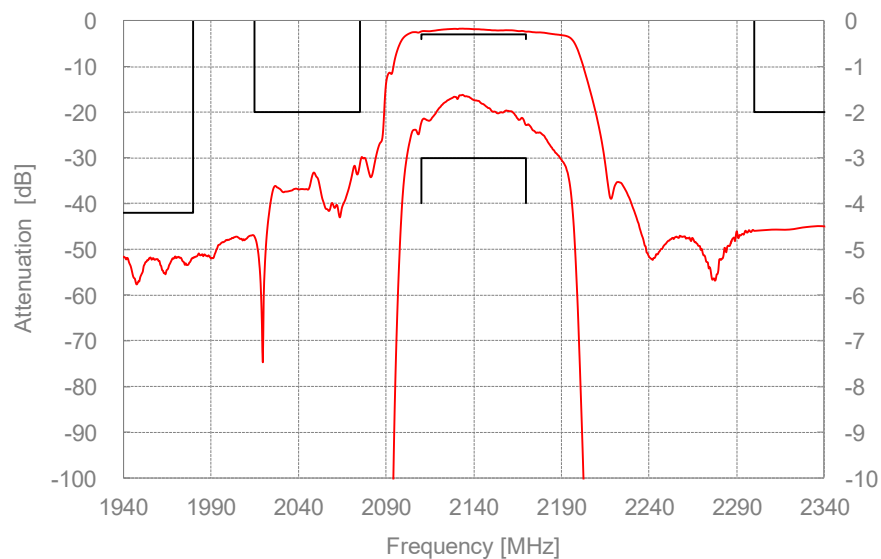
Typical Curve Data

<Band3>



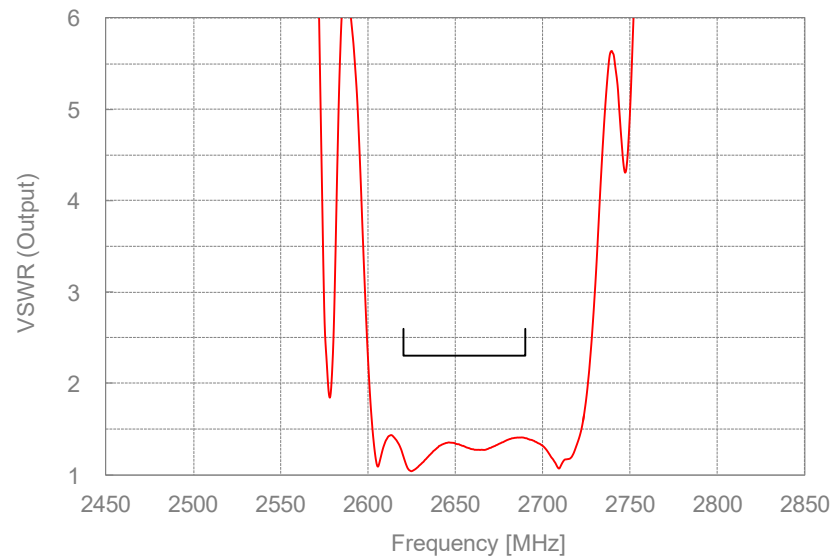
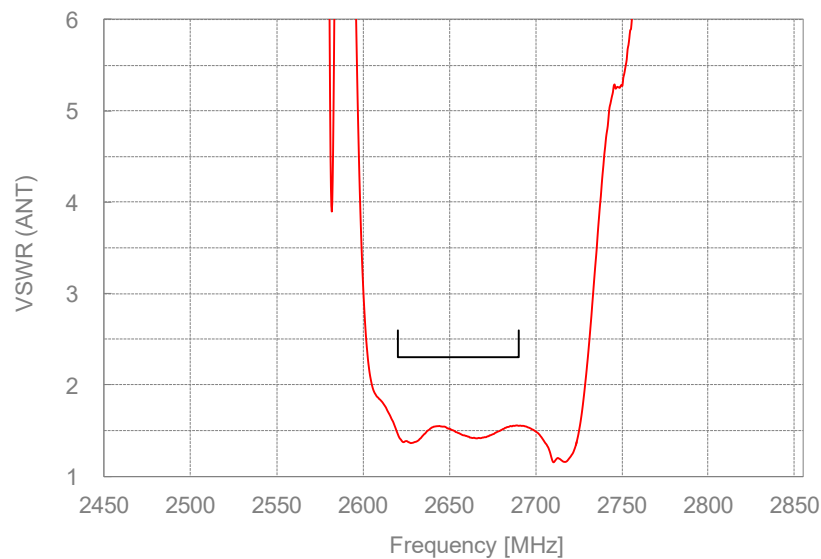
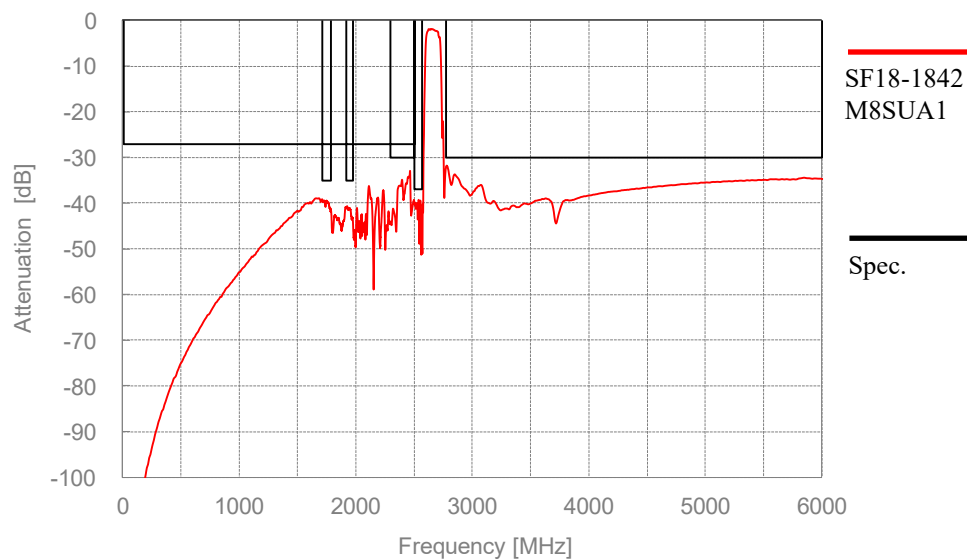
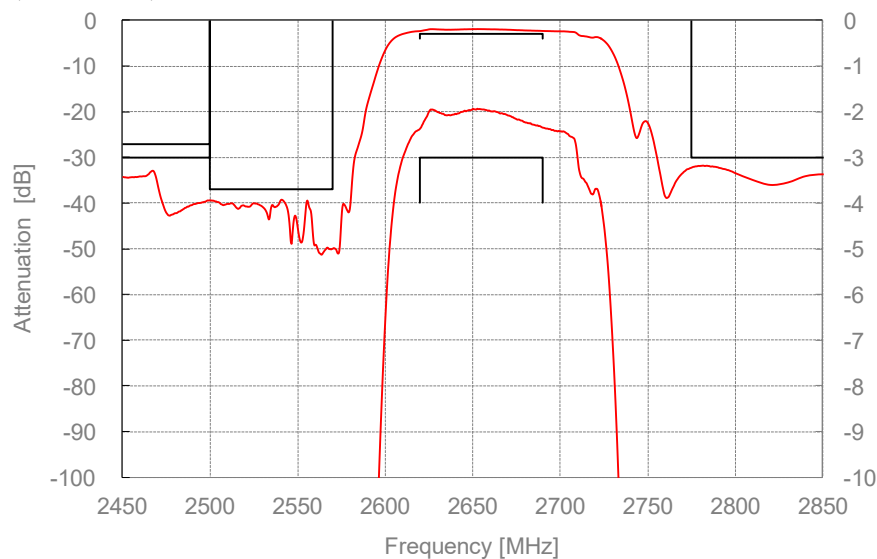
Typical Curve Data

<Band1>



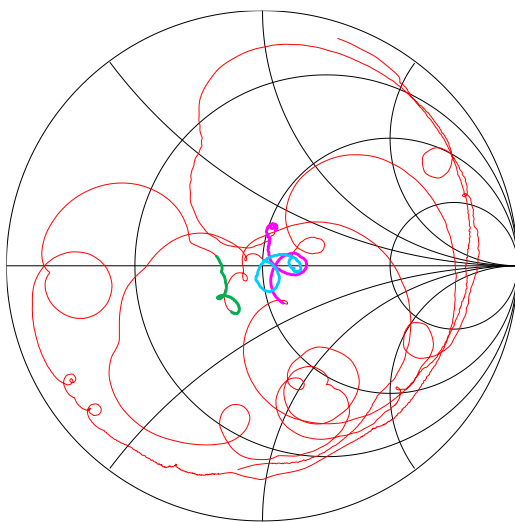
Typical Curve Data

<Band7>

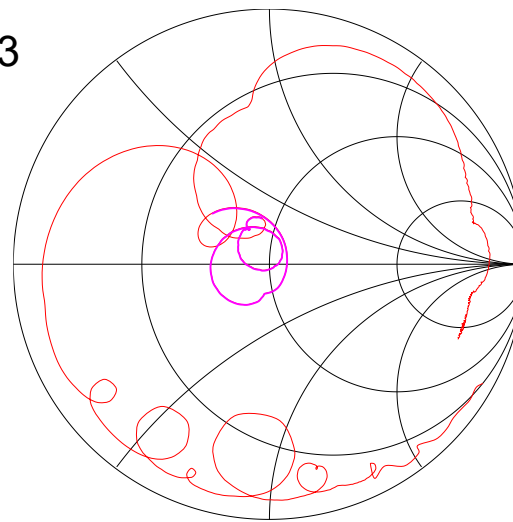


<Port Impedance>

Ant.



B3

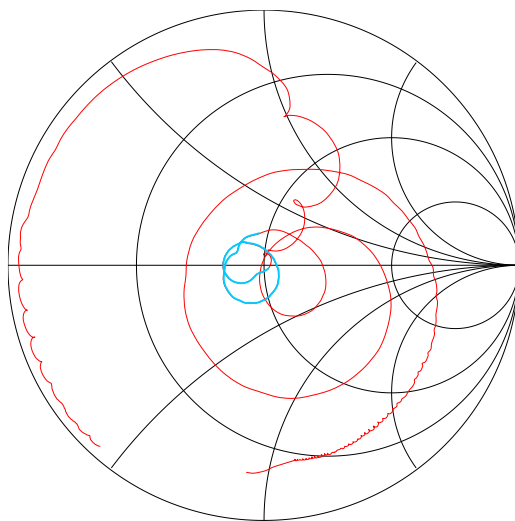


— B3

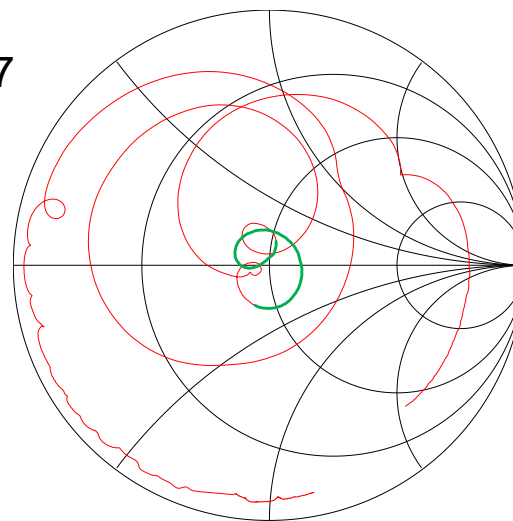
— B1

— B7

B1



B7



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