

KYOCERA SAW Duplexer
- 1814 Band13 Unbalanced-Rx –
Type Name : SD18-0782R8UUF1

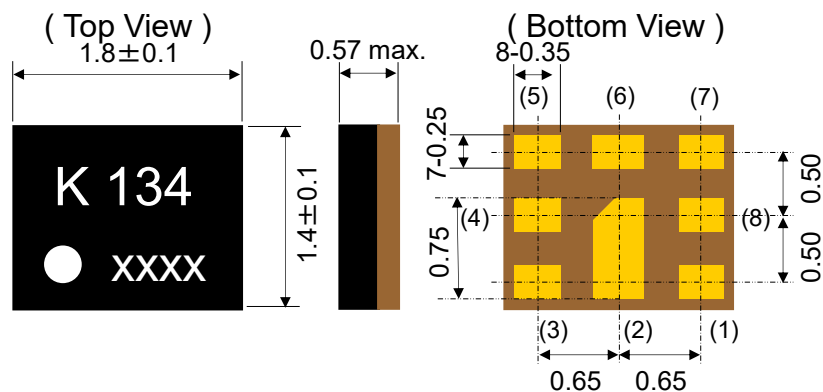
Sep., 4, 2024

KYOCERA Corporation

Corporate Electronic Components Group

Electronic Devices Division

■ Dimensions

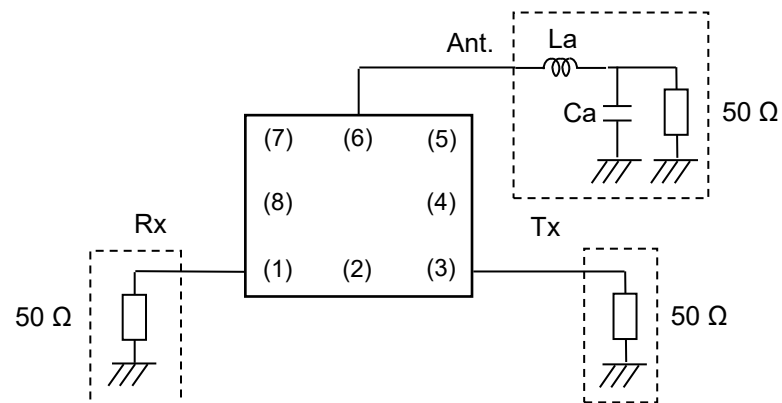


Unit : mm
 K : KYOCERA logo
 134 : Identification no.
 ● : Index mark of pin 1
 xxxx : Production Code

Pin allocation

(1) : Rx
 (3) : Tx
 (6) : Ant.
 Others : GND

■ Test Circuit



La : 13nH (Ideal)
 Ca : 2.7pF (Ideal)
 Port extension (Time) : 104ps
 Port extension (Loss) : 0.18dB

Items	Rating	Unit	Note
Operating Temperature Range	-20 to +90	deg.C	
Storage Temperature Range	-40 to +90	deg.C	
Max Input Power	+30	dBm	5,000hours, Ta=50deg.C, CW
Tx Port Nominal Impedance	50	ohm	Unbalance
Ant. Port Nominal Impedance	50//La=13nH Ca=2.7pF	ohm	Unbalance
Rx Port Nominal Impedance	50	ohm	Unbalance

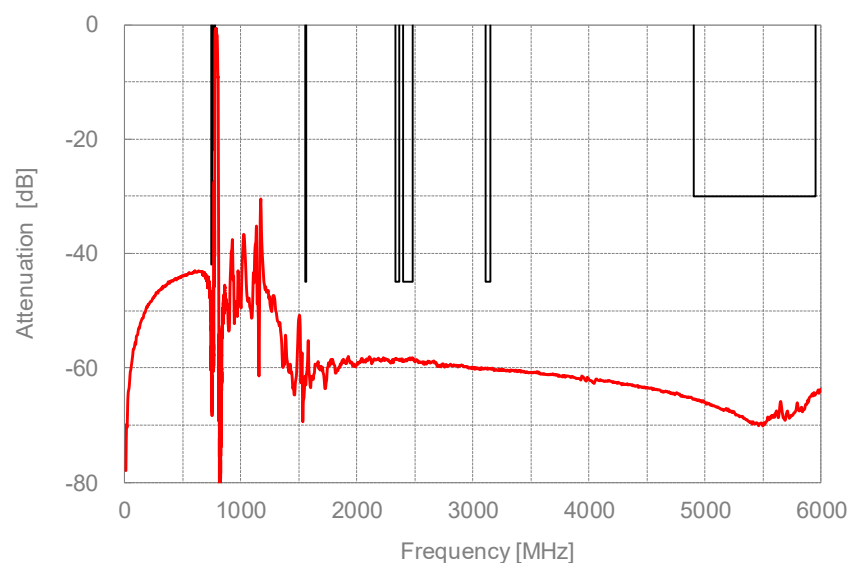
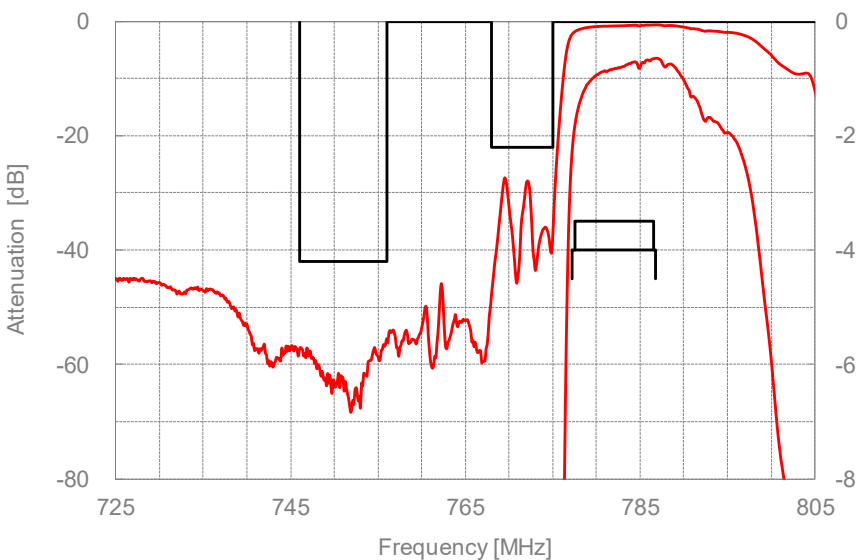
Characteristic table

Items		Frequency Range [MHz]	SD18-0782R8UUF1 Jul., 31, 2019			Unit	Notes	
			Spec.					
			min.	typ.	max.			
Tx to Ant	Nominal Frequency	-	782			MHz		
	Insertion loss	777.5 to 786.5	-	1.8	3.5	dB		
		777.25 to 786.75	-	2.1	4.0			
	VSWR	Tx	777.5 to 786.5	-	1.2	2.1	-	
		Ant	777.5 to 786.5	-	1.2	2.1	-	
	Absolute attenuation	10 to 746	30	43	-	dB		
		746 to 756	42	56	-		Rx	
		768 to 775	22 *	26 *	-		NS07 Relative to IL(dBint*)	
		1554 to 1565	45	62	-		2fTx	
2331 to 2361		45	58	-	3fTx			
2400 to 2484		45	58	-	ISM			
3108 to 3148		45	60	-	4fTx			
4900 to 5950	30	64	-	ISM 5G				
Ant to Rx	Nominal Frequency	-	751			MHz		
	Insertion loss	746 to 756	-	1.3	2.5	dB		
	VSWR	Rx	746 to 756	-	1.3		2.1	-
		Ant	746 to 756	-	1.4	2.1	-	
	Absolute attenuation	777 to 787	50	56	-	dB	Tx	
2400 to 2500		40	63	-	ISM 2.4G			
4900 to 5950		40	65	-	ISM 5G			
Tx to Rx Isolation	Isolation	746 to 756	52	57	-	dB		
		777 to 787	55	59	-			
Operating temperature range			-20 to 90			deg.C		

*dBint : Integrated to LTE Modulation (4.5MHz)

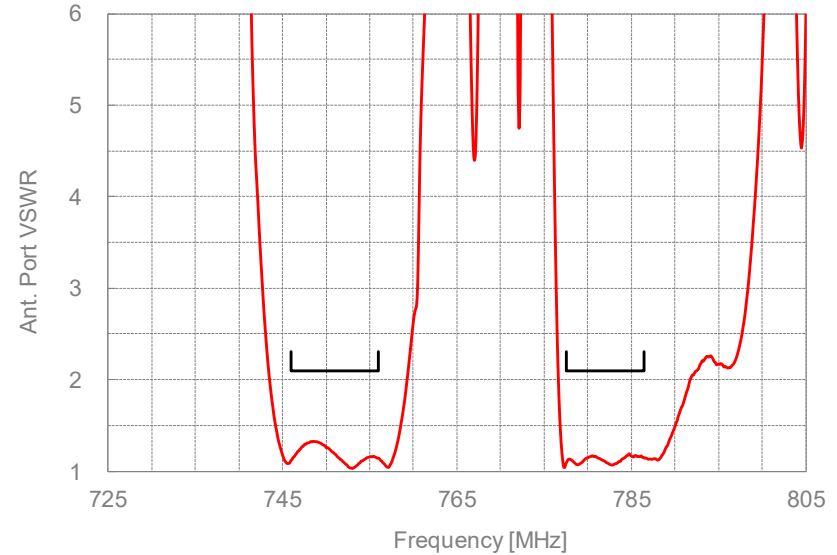
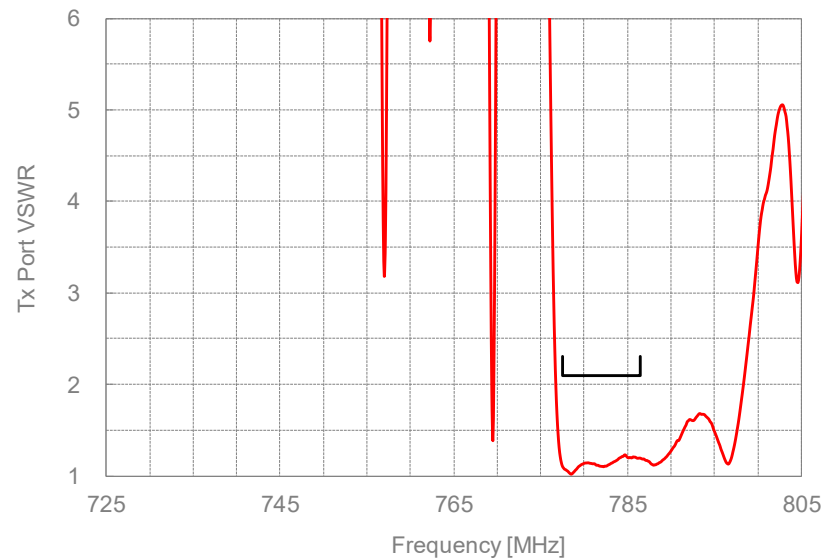
Typical Curve Data

[Tx to Ant]



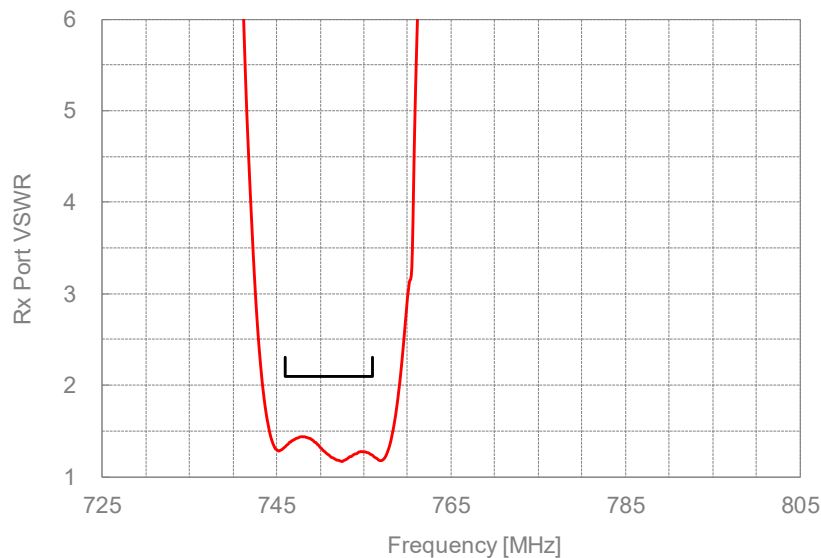
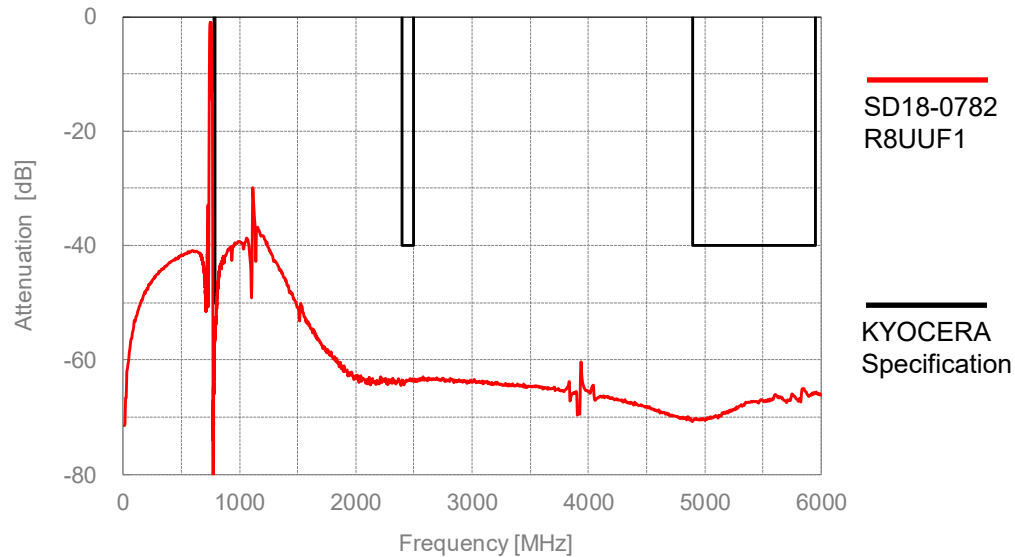
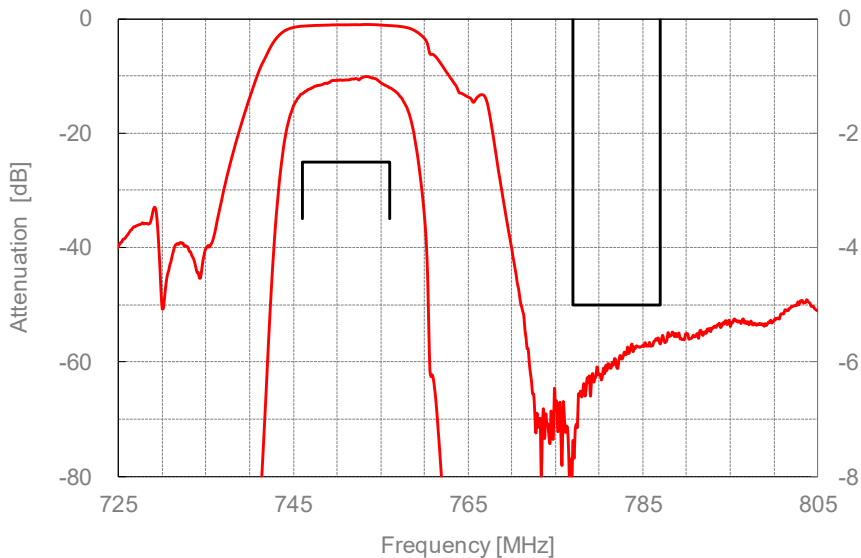
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— KYOCERA
Specification

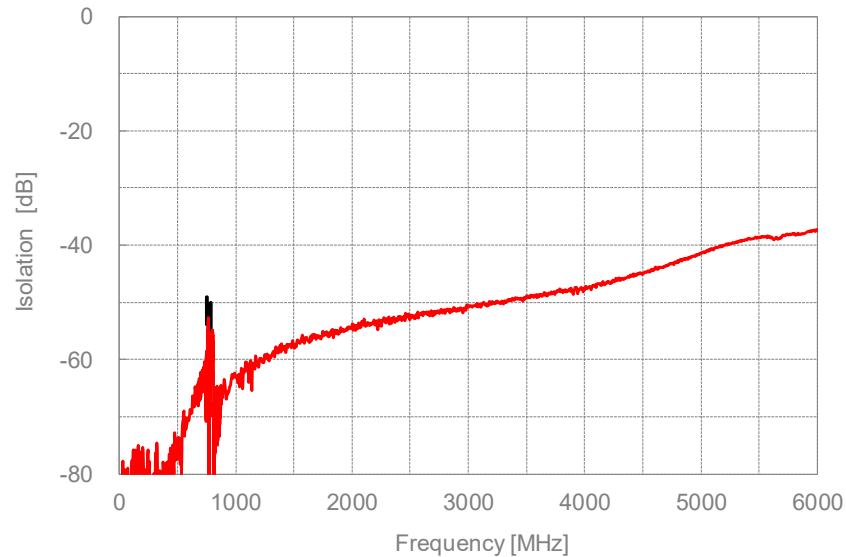
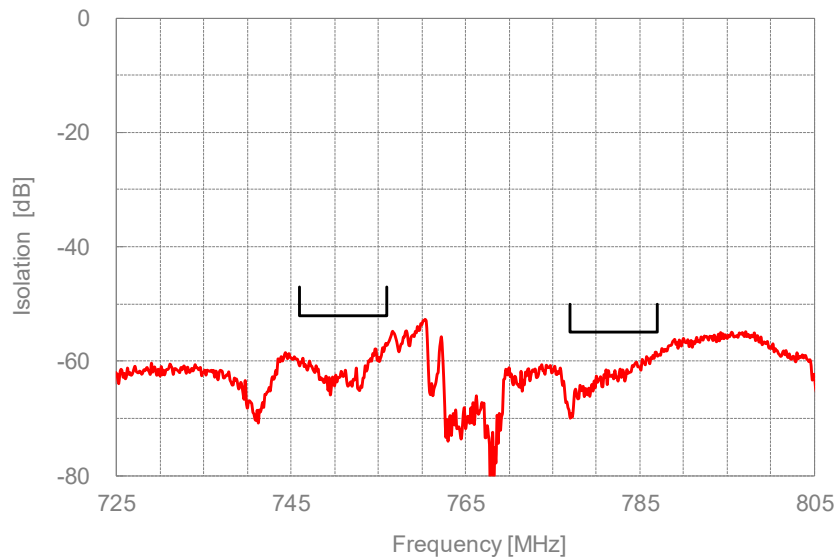


Typical Curve Data

[Ant to Rx]



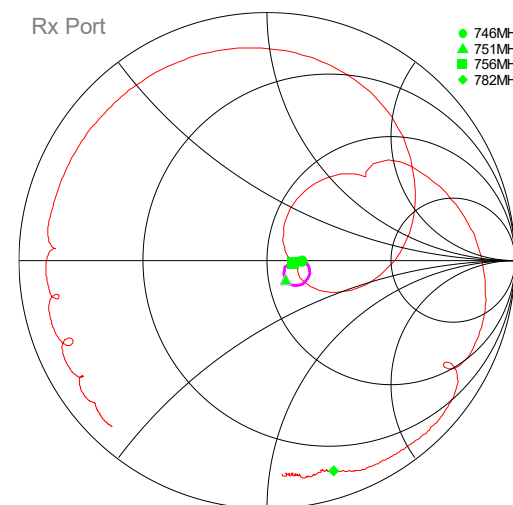
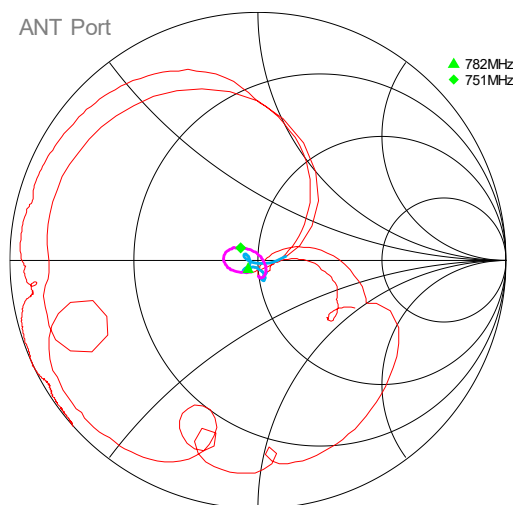
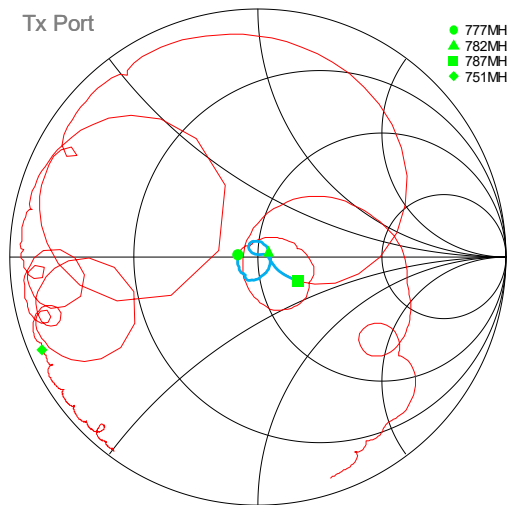
[Tx to Rx]



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Specification

[Port impedance]



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