

KYOCERA SAW Filter
- GNSS -
Type Name : SF14-1582M5UUS2

May, 30, 2024

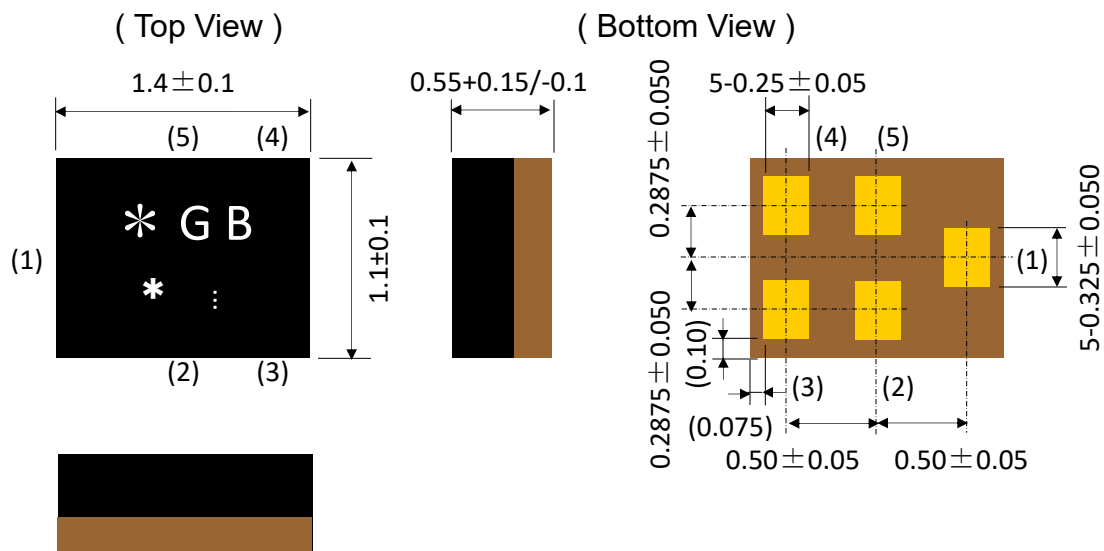
KYOCERA Corporation

Corporate Electronic Devices Group

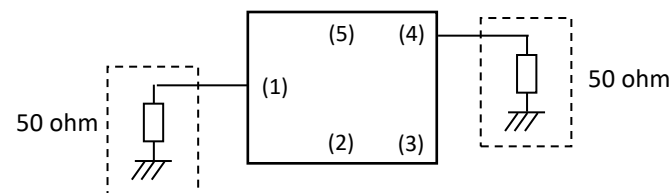
Electronic Devices Division

Dimensions & Test Circuit of SAW Filter

■ Dimensions



■ Test Circuit



Unit : mm
 * : Identification mark
 GB : Identification No.
 * : Monthly Code
 ⋮ : Index mark of ten days

Pin allocation

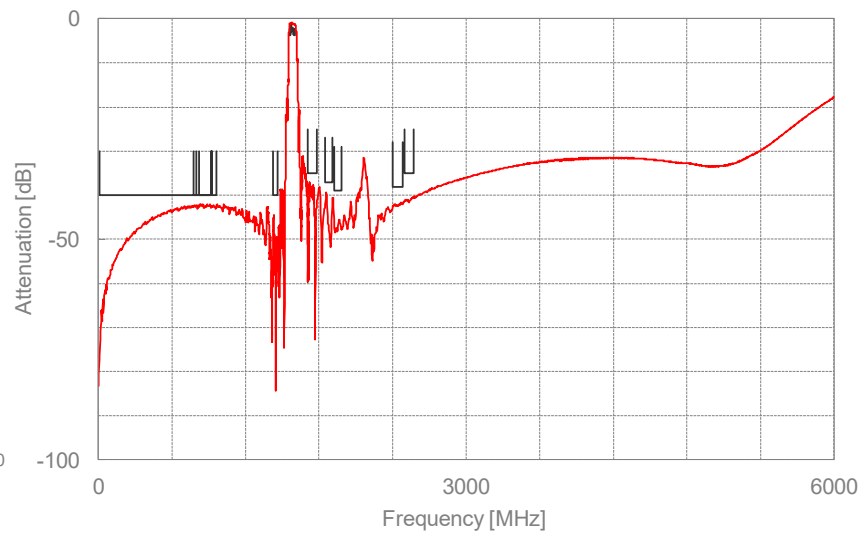
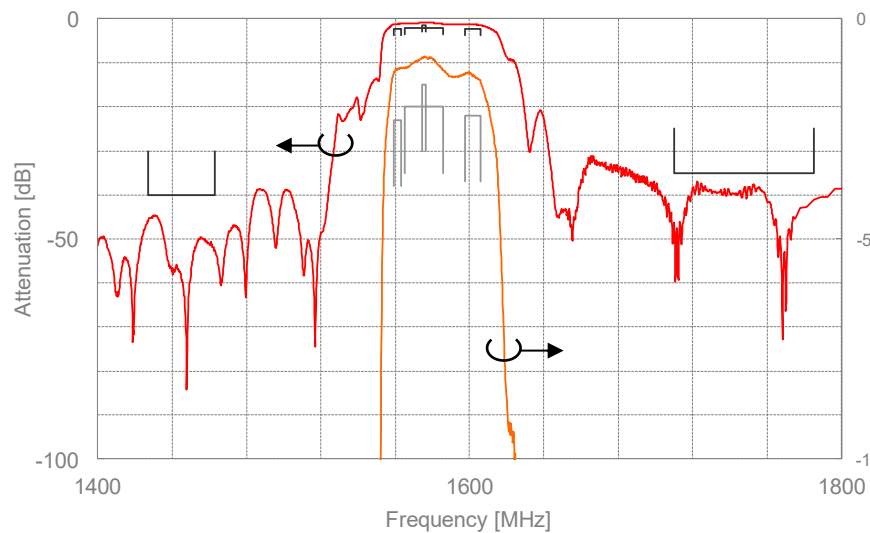
Pin No.	Function
(1)	Input
(2)	GND
(3)	GND
(4)	Output
(5)	GND

Items	Specification			Unit	Note
	min.	typ.	max.		
Operating Temperature Range	-30 to +85			deg.C	
Storage Temperature Range	-40 to +85			deg.C	
Max Input Power	-	-	+12	dBm	
Nominal Input Impedance	50			ohm	Unbalance
Nominal Output Impedance	50			ohm	Unbalance

Characteristic table

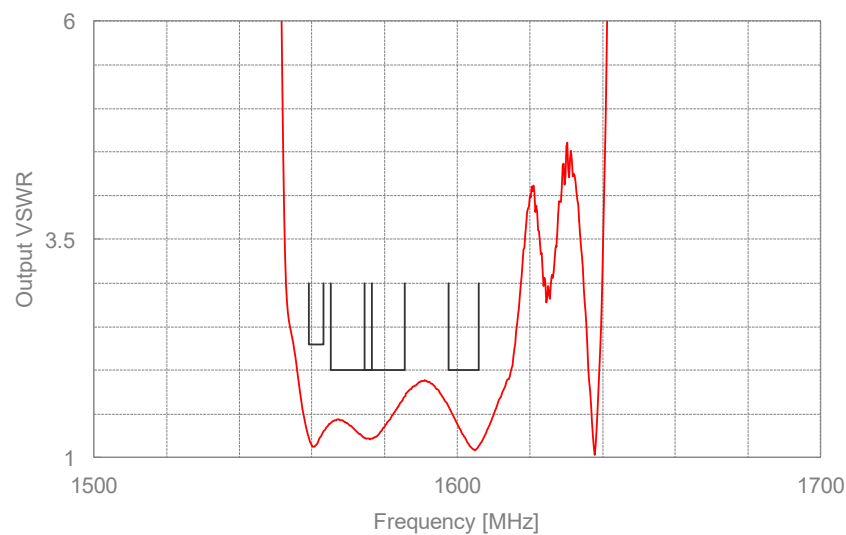
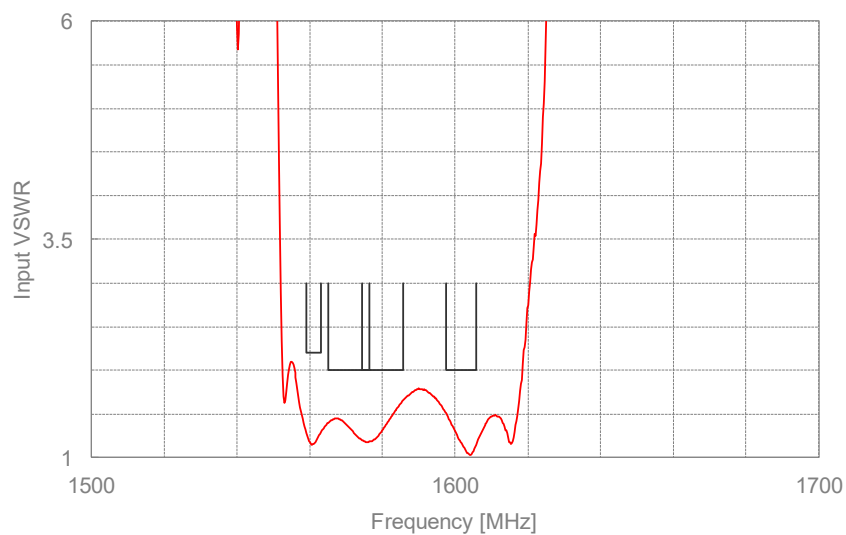
Items	Frequency [MHz]			Specification			Unit	Note
				min.	typ.	max.		
Nominal Center Frequency	-			1582			MHz	
Insertion Loss	1574.39	to	1576.45	-	0.9	1.5	dB	
	1565.19	to	1585.65	-	1.2	2.0	dB	
	1559.05	to	1563.15	-	1.2	2.3	dB	
	1597.55	to	1605.89	-	1.4	2.2	dB	
Group Delay Ripple	1597.55	to	1605.89	-	5.5	15	ns	
Input VSWR	1574.39	to	1576.45	-	1.2	2.0	-	
	1565.19	to	1585.65	-	1.7	2.0	-	
	1559.05	to	1563.15	-	1.3	2.2	-	
	1597.55	to	1605.89	-	1.5	2.0	-	
Output VSWR	1574.39	to	1576.45	-	1.2	2.0	-	
	1565.19	to	1585.65	-	1.7	2.0	-	
	1559.05	to	1563.15	-	1.3	2.3	-	
	1597.55	to	1605.89	-	1.6	2.0	-	
Absolute Attenuation	777	to	798	40	42	-	dB	
	824	to	915	40	42	-	dB	
	10	to	925	40	42	-	dB	
	925	to	960	40	42	-	dB	
	1427	to	1463	40	45	-	dB	
	1710	to	1785	35	37	-	dB	
	1850	to	1910	37	39	-	dB	
	1920	to	1980	39	45	-	dB	
	2401	to	2483	38	42	-	dB	
	2500	to	2570	35	40	-	dB	
700MHz harmonic	Input:15dBm at 787.76MHz Measure:second harmonic at 1575.52MHz			-	-77	-73	dBm	

Typical Curve Data



SF14-1582
M5UUS2

Spec.



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