Spec.No. KSD-523-0026-02

APPROVAL SHEET

(KYOCERA CORPORATION SAW FILTER SPECIFICATION)

Part No.: SF25-1960M5UB01

21th.Aug.'01

KYOCERA CORPORATION

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Approved

Prepared

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1.Scope

This specification shall cover the characteristics of the RF SAW filter for PCS.

- 2. Customer's Part No.
- 3.KYOCERA's Part No. : SF25-1960M5UB01

4.Electrical Characteristics

Table 1

Terminating Source Impedance: 50 ohms , Single-ended Terminating Load Impedance: 100 ohms , Differential

	Items	Frequency Range	Unit	Spe	ec.	
4-01	Center Frequency		MHz	1960		
4-02	Maximum Insertion Attenuation	1930 to 1990MHz	dB	4.1	max.	
	Amplitude Ripple (p-p)	1930 to 1990MHz	dB	2.0	max.	
	Input/Output VSWR	1930 to 1990MHz		2.5	max.	
4-05	Absolute Attenuation	0 to 1850MHz	dB	30	min.	
		1850 to 1910MHz	dB	15	min.	
		2040 to 3860MHz	dB	25	min.	
		3860 to 3980MHz	dB	20	min.	
		39800 to 6000MHz	dB	15	min.	
4-06						
4-07	Phase Imbalance: -15deg. min. / +15deg. Max.					
4-08	Operating Temperature: -30 to +85 deg.C					
4-09	Storage Temperature: -40 to +85 deg.C					

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5.Measurement Condition

Set the temperature at 25 deg C as room temperature, and measure it within the operating temperature range.

6.Measurement Circuit

- (3): Input
- (1), (5): Differential Output
- (2), (4): Ground





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Monthly code of production

Year	Month	Code	Year	Month	Code
2001	1	А	2003	1	а
2005	2	В	2007	2	b
	3	С		3	С
	4	D		4	d
	5	E		5	е
	6	F		6	f
	7	G		7	g
	8	Н		8	h
	9	J		9	j
	10	K		10	k
	11	L		11	
	12	М		12	m
Year	Month	Code	Year	Month	Code
2002	1	Ν	2004	1	Code n
	1 2	N P		1 2	
2002	1 2 3	N P Q	2004	1 2 3	n
2002	1 2 3 4	N P Q R	2004	1 2 3 4	n p
2002	1 2 3 4 5	N P Q R S	2004	1 2 3 4 5	n p q r s
2002	1 2 3 4 5 6	N P Q R S T	2004	1 2 3 4 5 6	n p q r
2002	1 2 3 4 5 6 7	N P Q R S T U	2004	1 2 3 4 5 6 7	n p q r s
2002	1 2 3 4 5 6 7 8	N P Q R S T U V	2004	1 2 3 4 5 6 7 8	n p q r s t
2002	1 2 3 4 5 6 7 8 9	N P Q R S T U V W	2004	1 2 3 4 5 6 7 8 9	n p q r s t u
2002	1 2 3 4 5 6 7 8 9 10	N P Q R S T U V W X	2004	1 2 3 4 5 6 7 8 9 10	n p q r s t u v
2002	1 2 3 4 5 6 7 8 9	N P Q R S T U V W	2004	1 2 3 4 5 6 7 8 9	n p q r s t u V W



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10.Environmental Characteristics

Item	Condition
Humidity	Keep the filter at 40+/-2 deg C and 90%RH to 95%RH for 500 hours. Then, release the filter into the room conditions for 2 hours minimum to the measurement. It shall fulfill the specifications in Table 1.
High Temperature Storage	Subject the filter to 85+/-5 deg C for 500 Hours. Then, release the filter into the room conditions for 2 hours minimum to the measurement. It shall fulfill the specifications in Table 1.
Low Temperature Storage	Subject the filter to -40+/-5 deg C for 500Hours. then, release the filter into the room conditions for 2 hours minimum to the measurement. It shall fulfill the specifications in Table 1.
Resistance to Reflow Solder Heat	Expose filter to increasing temperature with a minimum total exposure above 200 deg C of 40 seconds and must include 2-3 seconds at peak temperature of 235+/-5 deg C, twice. then, release the filter into the room conditions for 2 hours minimum to the measurement. It shall fulfill the specifications in Table 1.
Temperature Cycle	5 Cycles (1 cycles:-20 deg C for 0.5 hours then 60 deg C for 0.5 hours.) then, release the filter into the room conditions for 2 hours minimum to the measurement. It shall fulfill the specifications in Table 1.
Vibration	Subject the filter to vibration for 2hour each In the X,Y and Z axes with the amplitude of 1.5mm, 10 to 55 Hz/min. It shall fulfill the specifications in Table 1.
Mechanical Shock1	Subject the filter to 3 shocks in each direction Of six mutually perpendicular planes (a total of 18 shocks). Each shock shall be a sine wave shaped with a magnitude of 100 G and a duration of 6 m seconds. It shall fulfill the specifications in Table 1.
Mechanical Shock2	Drop the filter randomly onto a concrete floor from the Height of 1m, 3 times. It shall fulfill the specifications in Table 1.

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	A	В	D	E	F
Dimensions	2.4+/-0.1	2.9+/-0.1	12.0+/-0.2	5.5+/-0.05	1.75+/-0.1
	G	Н	J	к	L
Dimensions	4.0+/-0.1	4.0+/-0.1	2.0+/-0.05	1.5+0.1/-0.0	1.1+/-0.1
	R	W	т		
Dimensions	0.3 MAX	1.2+/-0.1	0.3+/-0.05		

(UNIT:mm)

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(UNIT : mm)

