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Messrs. Digi-Key Corporation

APPROVAL SHEET (KYOCER A CORPORATION SAW FILTER SPECIFICATION)

Kindly send us back a copy of this specification sheet with your signature. The specification shall be regarded as "APPROVED" unless we receive your disagreement or counterproposal before your placement of initial order for the part number specified.

Part No.:SF16-0868M4UU01

Jan. 17,2011

EQM08-4KC-D3SX492

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0.History

No	Date	Notes	Approved	Approved	Approved	Prepared
00	Jan.08 ,2011	First Edition	2222	k. Ugashi	A. Kabinoti	
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			372			

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Approved. QA.

Approved

Prepared

Engineering

Approved

Production

Engineering

1.Scope

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

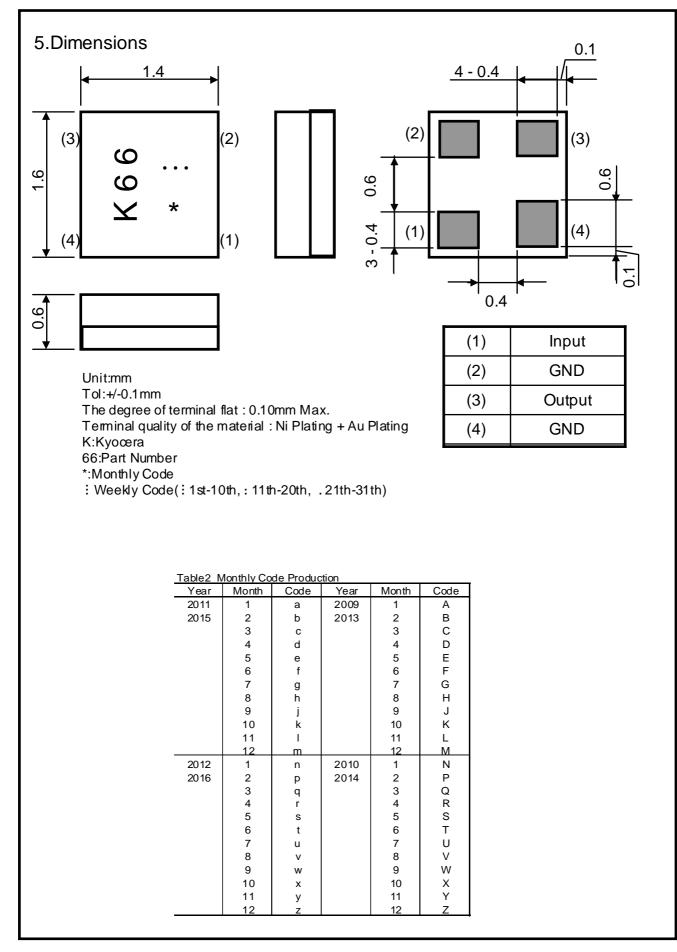
2.Customer's Part No.

3.KYOCERA's Part No. SF16-0868M4UU01

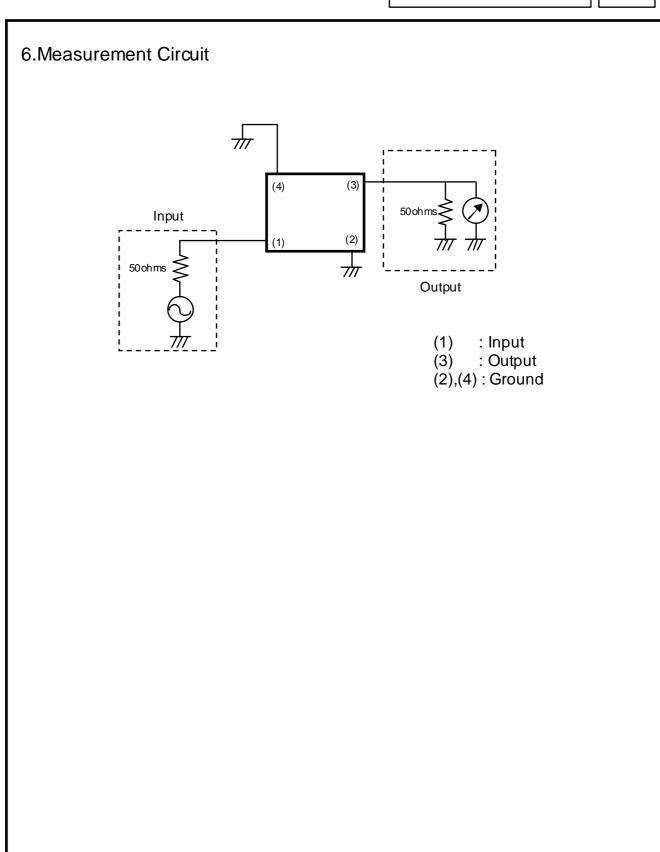
4.Electrical Characteristics

Terminating Source Impedance : 50 ohms , Single-ended Terminating Load Impedance : 50 ohms , Single-ended Table.1

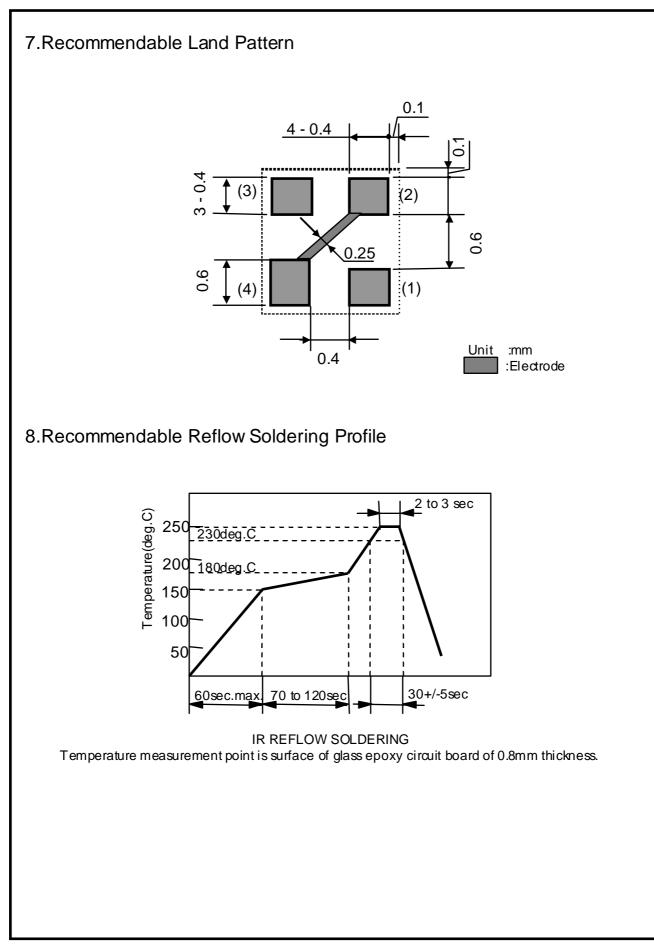
Table		F				Unit		Spec.	
	ltem s		Frequency Range				m in.	tvp.	max.
4-1	Norminal Frequency					MHz	-	868.42	-
4-2	Maximum Insertion Loss	858.92	to	877.92	MHz	dB	-	2.2	4.0
4-3	Amplitude Ripple(P-P)	858.92	to	877.92	MHz	dB	-	0.5	2.0
4-4	Input VSW R	858.92	to	877.92	MHz		-	2.2	2.5
4-4	Output VSWR	858.92	to	877.92	MHz		-	2.2	2.5
4-5	Absolute Attenuation	DC	to	787.92	MHz	dB	35	40	-
		813.92	to	832.92	MHz	dB	20	35	-
		903.92	to	922.92	MHz	dB	20	27	-
		948.92	to	1200	MHz	dB	35	40	-
		1200	to	2000	MHz	dB	20	29	-
4-6	Maximum Input Power					dBm		+ 12	
4-7	Operating Temperature					deg.C		-30 to +85	
4-8	-8 Storage Temperature deg.C -40 to +85				-40 to +85				



EQM08-4KC-D3SX492



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ltem	Condition					
Humidity	Subject the filter to 60+/-2 deg.C and 90%RH to 95%RH					
	for 100 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	Subject the filter to 85+/-2 deg.C for 100 Hours.					
Storage	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	Subject the filter to $-40+/-2$ deg.C for 100Hours.					
Storage	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	Expose filter to increasing temperature with					
Reflow Solder Heat	a minimum total exposure above 230 deg.C of 30+/-5					
	seconds and must include 2-3 seconds at peak					
	temperature of 250 deg.C, twice.					
	Then, release the filter into the room conditions					
	for 2 hours minimum to the measurement.					
Tama matura Quala	It shall fulfill the specifications in Table 1.					
Temperature Cycle	10 Cycles (1 cycles:-40 deg.C for 30minutes then 25 deg.C for 15minutes then 85 deg.C for 30minutes.)					
	An examination is done under the evaluation circuit board					
	mounting condition.					
	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 2 hour 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 mseconds. 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.					
ESD	A direct current voltage is increased to DEV ICE mounted on the					
	evaluation circuit board. The failure rate which occurred by the direct					
	current voltage is investigated. A direct current voltage begins from 39V.					
	As for the voltage, it increses with step of E12 series. A failure voltage					
	is prescribed in the direct current voltage that an accumulate trouble rate					
	is 0.1%. It is judged with the trouble when increase in the insertion loss					
	occurs beyond 0.3dB before and after the examination. A failure voltage					
	is more than 50V. (Fig1)					
<u>Fig1</u> 1M	. SW .					
	$h \circ l \circ h \sim \eta$					
	<u><u>Y</u> 2 0 0 p F</u>					
ΙŢ						
DC Source 🚽 🛛 🗸						
1						



