

## **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

AVX Corporation SF16-0868M4UU01

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



EQM08-4KC-D3SX492

## Messrs. Digi-Key Corporation

# APPROVAL SHEET

### (KYOCER A CORPORATION SAW FILTER SPECIFIC ATION)

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 0/9 0.History No Date Notes Approved Approved Approved Prepared 00 Jan.08 First Edition: R. Hjushi A. Kalimote N. Mr. M. ,2011



4-6 Maximum hput Power

4-8 Storage Temperature

4-7 Operating Temperature

**Distributor of AVX Corporation: Excellent Integrated System Limited** Datasheet of SF16-0868M4UU01 - FILTER SAW 868MHZ RF SMD Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

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2.	.Cus .KY(	ope s specification shall cover stomer's Part No. OCERA's Part No. 16-0868M4UU01	the chara	cteri	stics of t	he RF	SAW fi	lter.			
4	Fle	ctrical Characteris	tics								
	Term	inating Source Impedance : 50 inating Load Impedance : 50 c	) ohms , S								
		ltem s	Fre	equer	ncy Range	1	Unit		Spec.		-
	4-1	Norminal Frequency					MHz	min. -	typ. 868.42	max.	-
	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	hput VSW R	858.92	to	877.92	MHz		-	2.2	2.5	_
		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	-	-
			903.92 948.92	to to	<u>922.92</u> 1200	MHz MHz	dB dB	<u>20</u> 35	<u>27</u> 40	-	-
			<u>948.92</u> 1200	to	2000	MHz	dB	20	40 29	-	-

dBm

deg.C

deg.C

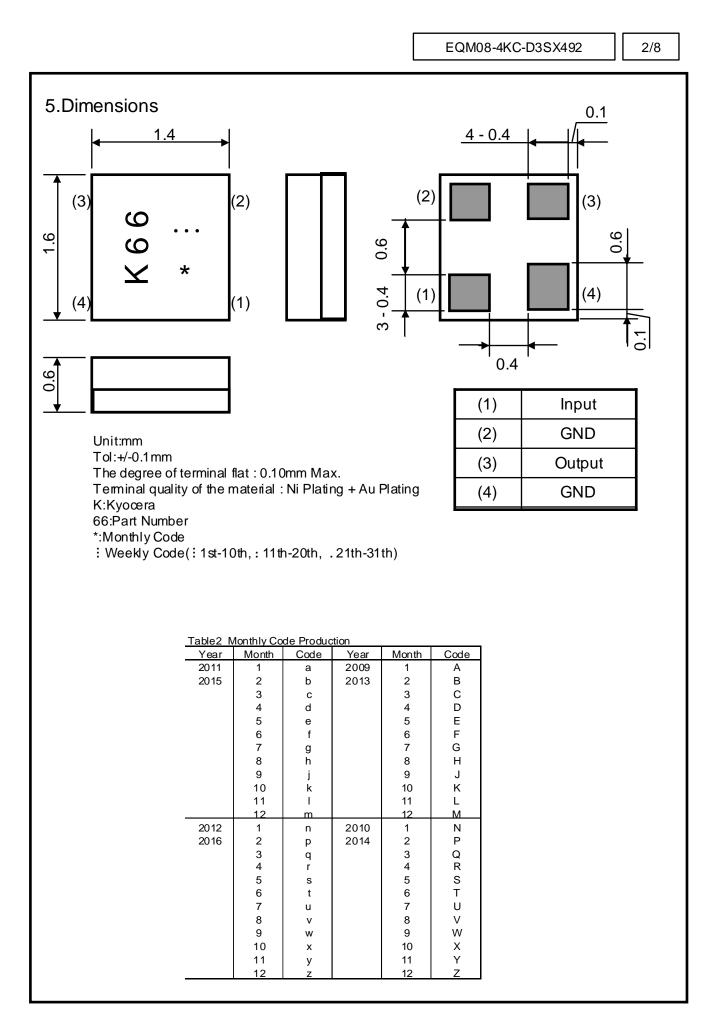
+ 12

-30 to +85

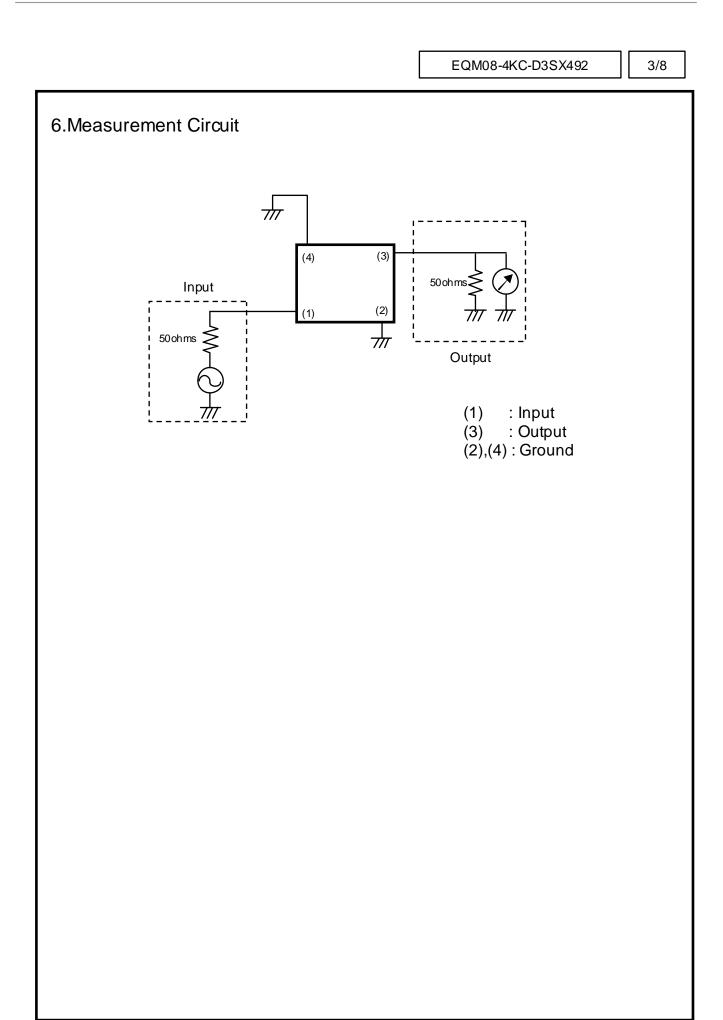
-40 to +85



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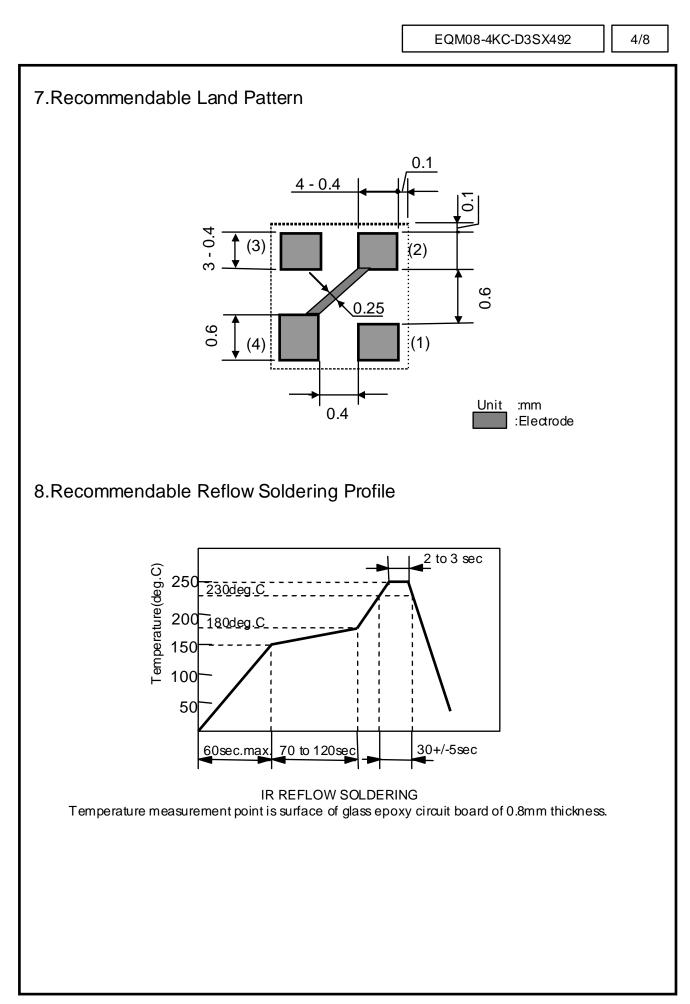








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EQM08-4KC-D3SX492

5/8

ltem	Condition	П
Hum idity	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.	
Temperature Cycle	It shall fulfill the specifications in Table 1. 10 Cycles (1 cycles:-40 deg.C for 30minutes then	
remperature Cycle	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 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 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>	. SW .	
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ΙT		
DC Source 🛓 🗸		



