February 10, 2017

Product change
RF360 SAW filters for industrial electronics with a higher moisture sensitivity level

The following SAW small-cell filters and duplexers from RF360 for applications in industrial electronics have now been upgraded to a higher moisture sensitivity level (MSL) thanks to CSSP®-Cu technology based on copper frames. The affected products were previously classed as MSL3 (168 hours), and this has now been upgraded to MSL2a (four weeks).

Labels, data sheets and production documents will be adapted accordingly. The products themselves remain unchanged. This change has no effect on the properties, reliability or ordering codes of the products.

Affected products

Ordering code	Ordering code
B39162B9621P810	B39711B9616P810
B39172B9617P810	B39741B8012P810
B39192B9611P810	B39741B8017P810
B39202B9610P810	B39741B9620P810
B39202B9619P810	B39781B8005P810
B39202B9626P810	B39841B9613P810
B39212B8026P810	B39881B8013P810
B39212B8092P810	B39881B9612P810
B39212B9615P810	
B39212B9622P810	

Scheduled date of introduction: May 15, 2017

The data sheets may be downloaded in RF360 SAW Components Lineup under www.rf360jv.com/saw_industrial .

Enclosure PCN (ID No. M294)

Contact Pascale Louis, RF360 D IE PM, Munich

Customers are asked to address inquiries directly to their sales contacts.

Product / Process Change Notification

1. **ID No.:** M294	2. **Date of announcement:** Feb. 10, 2017

3. Product / product group: Industrial-grade small-cell filters and duplexers

Old ordering code:	**New ordering code:**	**Customer part number:**
B39881B9612P810 B39881B8013P810 B39841B9613P810 B39741B9620P810 B39741B8017P810 B39711B9616P810 B39212B9622P810 B39212B9615P810 B39202B9619P810 B39202B9610P810 B39192B9611P810 B39172B9617P810 B39162B9621P810 B39781B8005P810 B39741B8012P810 B39212B8092P810 B39212B8026P810 B39202B9626P810	No change	

4. Description of change:

Upgrade of MSL specifications and documentation from level 3 to level 2a on the basis of CSSP-Cu technology.

Applicable to: Industrial-grade small-cell filters and duplexers (as listed above) already released with MSL3 levels and qualified according to the IE Qualification Test Procedure - (s-0793$01).

All newly released products are already documented as MSL2a, and are unaffected by the change.

Data sheets and production documents will be updated in parallel. The production date code showing the time from which the hardware data is updated will be provided for each type individually.

This change will apply only to new production batches released after this date. We will keep goods parts ready for delivery in stock with MSL3 labelling until they are depleted or expire.

5. Effect on the product or for the customer (benefit / quality, specification, lead time):

Product unchanged, specification upgraded to a higher moisture sensitivity level.

6. Quality assurance measures / risk assessment:

Products qualified according to Qualification Test Procedure for IE Components , reference document s_0973$01

Preconditionning and humidity tests acc. to MSL2a levels - JEDEC J-STD-020B

7. Scheduled date of change: May 15, 2017

All data sheets and production release documents will be updated between May 15 and May 30, 2017.

New data sheets will be uploaded in SAWI once the production release documents are completed.

8. Estimated date of first delivery of changed product: May 15, 2017

Nevertheless, as we may have a stock of finished goods in hand at the moment of the change, we will continue delivering parts labelled MSL3 until these are depleted. This means that MSL3 labelled parts may be delivered until May 30, 2018.

If RF360 does not receive notification to the contrary within a period of 10 weeks, RF360 assumes that the customer agrees to the change. For an interim period we cannot rule out that old as well as new products will be shipped

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Customer feedback

Customer acknowledgement	Signature