

Notice No. : (BP) 13-013E  
 Aug 29, 2013

SEIKO EPSON CORPORATION  
 MICRODEVICE Div.,  
 TD Production Planning and Control Dept.

### The Change in reel packing for SMD SAW Oscillator

Dear Valued Customer:

Thank you for choosing EPSON CORPORATION for your product. EPSON maintains a continuous effort to improve the production and delivery performance of its products.

We will change the method of packing the SAW oscillator. The details are follows.

Products table

Dimension 7.0 x 5.0mm

Name	Production code	Name	Production code
EG-2001CA	Q3801CA0*	EG-2101CA	Q3803CA0*
EG-2002CA	Q3802CA0*	EG-2121CA_LVDS	Q3805CA1*
EG-2121CA_PECL	Q3805CA0*	EG-2102CA_LVDS	Q3806CA1*
EG-2102CA_PECL	Q3806CA0*	XG-1000CA	Q3851CA0*
EG-2021CA	Q3807CA0*	EG-2102CA_HCSL	X1M00009 *
EG-2121CA_HCSL	X1M00010*	EG-4101CA_PECL	X1M00014*
EG-4101CA_LVDS	X1M00015*	EG-4101CA_HCSL	X1M00016*
EG-4121CA_PECL	X1M00017*	EG-4121CA_LVDS	X1M00018*
EG-4121CA_HCSL	X1M00019*	EG-2103CA_PECL	X1M00006*
XG-2102CA_PECL	X1M00030 *	EG-2103CA_LVDS	X1M00028*
XG-2103CA_PECL	X1M00032*	XG-2102CA_LVDS	X1M00034*
XG-2121CA_LVDS	X1M00035*	XG-2121CA_PECL	X1M00031*

Dimension 5.0 x 3.2 mm

Name	Production code	Name	Production code
XG-1000CB	Q3851CB0*	EA-2102CB	Q3861CB0*
EG-2102CB_PECL	X1M00020*	EG-2102CB_LVDS	X1M00022*
EG-2121CB_LVDS	X1M00023*	EG-2121CB_PECL	X1M00021
XG5032HAN	X1M000461	EG-2103CB	X1M000281

2. The effect of changing

1)Packing bag of reel

Current: Aluminum moisture proofing bag



Change proposal: Anti-static electricity PE bag, (Polyethylene)



2) Current: Silica gel in the reel bag.

Change proposal: Silica gel of the reel bag is abolished.

3)Number of products a reel volume

	Current 254mmφ reel	Changed 180mmφ reel
Dimension 7.0 x 5.0mm	1,000 pcs max	1,000 pcs max
Dimension 5.0 x 3.2 mm	2,000 pcs max	1,000 pcs max

(Current 254mmφ reel /Weight 188g)

(Changed 180mmφ reel / Weight 45g)



### 3. Reason for the changing

SMD SAW oscillator is composed of ceramic package and the metal lid, SMD is sealed by welding. IPC/JEDEC J-STD-020D.1\* is a non-application for welding SMD, so it is a reference for Moisture Sensitivity. SMD SAW oscillator has Moisture Sensitivity Levels 1 or more, so it does not really need the moisture proof management.

We have not sealed the reel bag under strict moisture proof management, seals in the atmosphere. The reduction of Silica gel can decrease waste.

\*Reference information: IPC/JEDEC J-STD-020C Moisture Sensitivity Levels 1  
Floor life Conditions: Min 30 °C/85% RH / Time Unlimited.

The main production of SAW oscillator has been transferred to Thailand branch. So we would like to improve the ability to purchase plastic reel in Thailand branch, Now, we are using the special size 254mmφ, so we would like to change it to standard 180mmφ.

We will be able to decrease the reduction in amount of reel scrap  
(Current reel weight 188g ⇒ Changed reel weight 45g -76 % decrease)

### 4. Schedule

- (1) Packing bag of reel: It will start on April 2014.
- (2) Silica gel less: It will start on April 2014.
- (3) Diameter change of Plastic reel: It will start on April 2014.

### 5. Other:

If you have any concern and/or request, please contact your regional SEIKO EPSON CORP. Timing Device sales office.

Sincerely yours,