

Product Change Notice

Document ID : AKMSPK170921C

Product affected : See page 2 (TSSOP-16 Package)
Date of notification : 9/21/2017 (Revised on 12/28/2017)

Type of change : Assembly site

Reason for change : Closure of current assembly line

Description of change:

Asahi Kasei Microdevices Corp. (AKM) will transfer assembly process for the products which are currently assembled by one of our package vendors, Kato Electric Yamanashi plant due to its assembly line closure. Detailed information on schedule and new assembly site are attached to this notice.

There is no change with customer ordering part number.

Affected Product and Schedule of New Part

See page 2

Comparison of current and new part

See page 3 to 9

AKM will consider this notice fully noticed and approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice.

AKM Semiconductor, Inc. 1731 Technology Drive, Suite 500 San Jose, CA 95110

Affected Product and Schedule of New Part (Revised on 12/28/2017)

Group	Part Number	Package	Current Assembly Site	New Assembly Site	Last Time Buy	Sample Availability of New Part	Full Qualification of New Part	Customer Approval of New Part	Mass Production Start of New	Closure of Current Assembly
А	AK2301	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK2510AVT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
В	AK4382AVT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
В	AK4384VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
В	AK4386ET	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4386VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
С	AK4387ET	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4388ET	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4388VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4389VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4552VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4554VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK4555VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK5357VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
С	AK5358AET	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
A	AK5359ET	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
A	AK5381ET	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
A	AK5381VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK5386VT	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19
А	AK8142P	TSSOP-16	KATOH Electric Co., Ltd. Yamanashi factory	KATOH Electric Co., Ltd. Rifu factory	N/A *LTB not necessary if new part approved by 9/30/2018	3/31/2018	6/30/2018	by 9/30/2018	October-18	March-19

Comparison Chart (TSSOP-16)

Changes are highlighted in yellow.

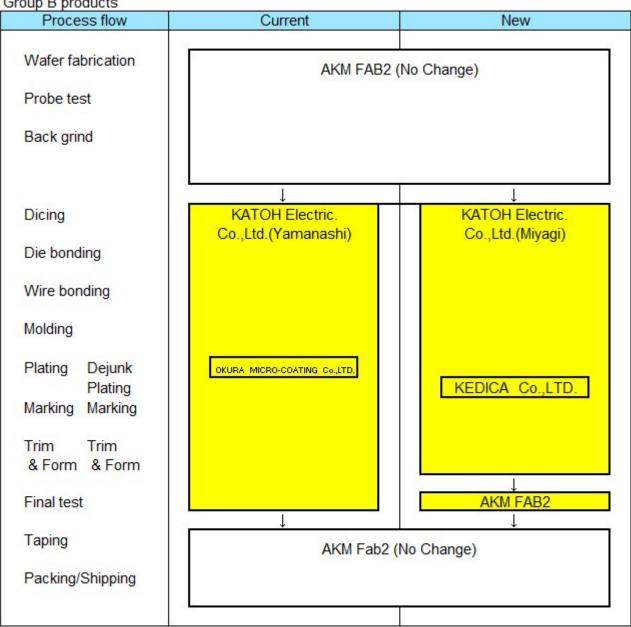
1 Affected Part

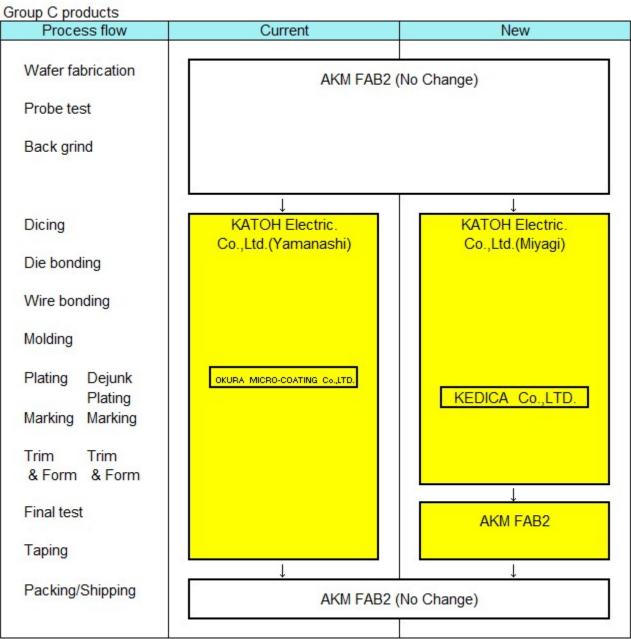
See page 2

2 Process flow (Revised on 12/28/18)

Group A products Current Process flow New Wafer fabrication AKM FAB2 (No Change) Probe test Back grind KATOH Electric. KATOH Electric. Dicing Co.,Ltd.(Yamanashi) Co.,Ltd.(Miyagi) Die bonding Wire bonding Molding **Plating** Dejunk OKURA MICRO-COATING Co.,LTD. KEDICA Co.,LTD. Plating Marking Marking Trim Trim & Form & Form Final test AKM FAB2 (No Change) **Taping** Shipping

Group B products





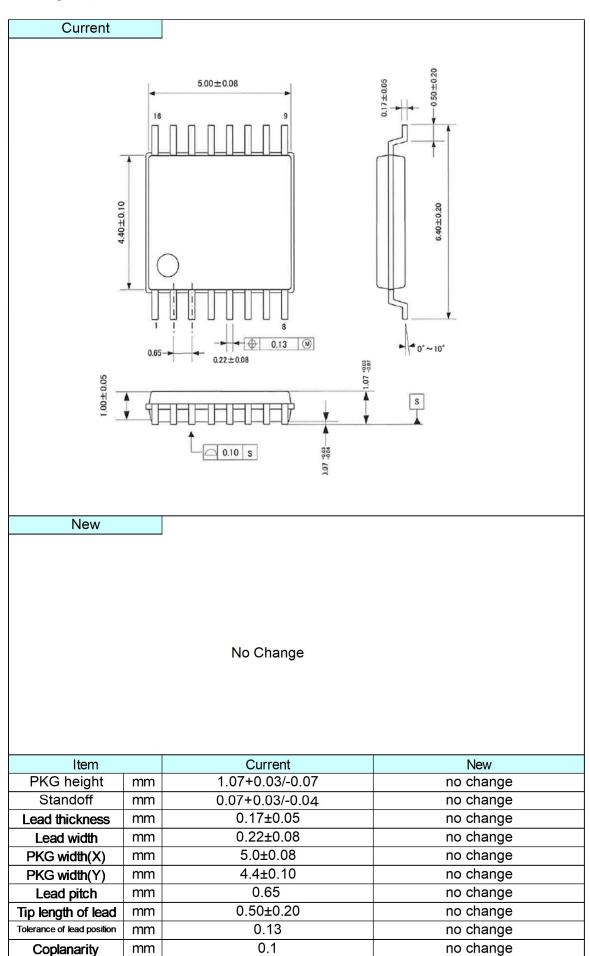
3 Specifications (Revised on 12/28/2017)

	Current	New			
Package type	TSSOP	no change			
Pin count	16	no change			
Die information	Thickness : 280µm	Thickness : no change			
Lead frame	Material : Cu	Material: no change			
	Base material : C194	Base material : no change			
	Die pad : 2.80 x 3.50 mm	Die pad : no change			
Dia attach material	Type : Ag paste	Type : no change			
	Supplier : Hitachi Chemical	Supplier : no change			
Wire	Diameter : φ22.5um	Diameter: no change			
	Purity : 4N	Purity : no change			
Mold compound	Type : Epoxy resin	Type : no change			
6.94.55.665.96	Supplier : Hitachi Chemical	Supplier : Sumitomo Bakelite			
	Halogen free : No	Halogen free : Yes			
Plating	Composition : Sn-Bi (Bi: 2±1%)	Composition : Sn (Sn: 100%)			
	Thickness : 5~15µm	Thickness : no change			
Packing	T&R 1000pcs/Reel	no change			

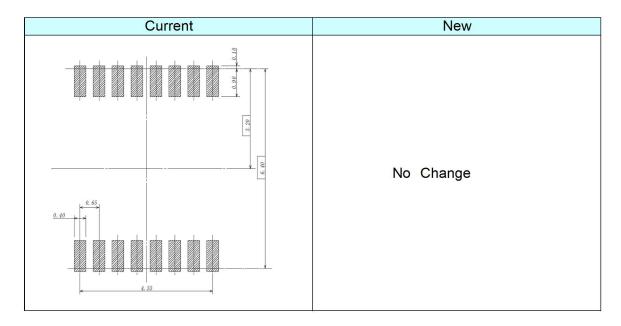
4 Laser Marking

	Current	New		
Marking type	Type : Laser	Type : no change		
Marking specification	Line 1 : AKM	Line 1 : no change		
	Line 2 (Device name)	Line 2 : no change		
	Line 3 : (Datecode)	Line 3 : no change		
	Digits of datecode : 5	Digits of datecode : no change		
Index marking	Pin#1	no change		
Marking layout				
*Example of AK5359ET	AKM	AKM		
	5359ET	5359ET		
	XXXXX	XXXXX		
	•	•		

5 Pacakge Dimensions



6 Recommended Solder Pad Dimensions



7 Assembly Site Address

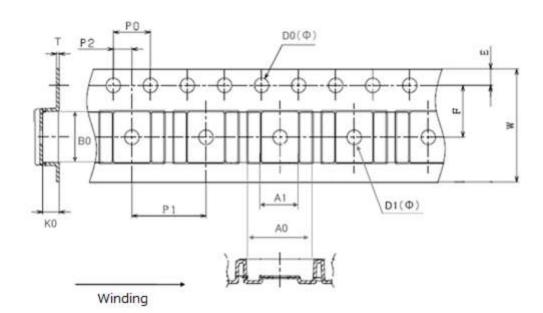
Current	Fujiyoshida-City, Yamanashi
New	Rifu-cho, Miyagi-gun, Miyagi

8 Emboss tape (Added on 12/28/2017)

Group A and B products: No change

Group C products: Changes are highlighted in pink

Current



A0	A1	B0	W	E	F	P0
6.9±0.1	4.0±0.2	5.4±0.1	12.0±0.2	1.75±0.1	5.50±0.05	4.0±0.1
P1	P2	D0	T	K0	D1	
8.0±0.1	2.00±0.05	1.5+0.1/-0	0.30±0.05	1.9±0.1	1.55±0.05	

New

A0	A1	B0	W	E	F	P0
6.85±0.1	4.0±0.2	5.4±0.1	12.0±0.2	1.75±0.1	5.50±0.05	4.0±0.1
P1	P2	D0	T	K0	D1	
8.0±0.1	2.00±0.05	1.5+0.1/-0	0.30±0.05	1.8±0.1	1.55±0.05	