

## Product Change Notices

PCN No.:20110501

Date: 05/24/2011

This is to inform you that AME9172M SOP-8/PP series bonding wire material change will be made to the following product(s). This notification is for your information and concurrence.

If you require data or samples to qualify this change, please contact AME, Inc. within 30 days of receiving of this notification.

If we do not receive any response from you within 30 calendar days from the date of this notification, we will consider that you have accepted this PCN.

If you have any questions concerning this change, please contact:

PCN Originator:

Name: Bill Chou

Email: bill\_chou@ame.com.tw

Expected 1st Device Shipment Date: 05/24/2011

Effective Year/Work Week of Changed Product: NA

### Description of Change :

Change AME9172M SOP-8/PP series bonding wire material from Au to Cu wire.

**AME9172M SOP-8/PP series Part Number: AME9172M-AZA**

### Reason for Change:

Vendor notified AME the bonding wire material of SOP-8/PP will be changed from Au to Cu wire. AME had approved the Qual/REL report as attached.

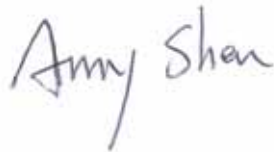
**Qual/REL Plan Numbers: Refer to AME9172M SOP-8/PP Cu wire reliability test report**

### Qualification:

TEST ITEM	METHOD	DESCRIPTION	Result
HTS	JESD22-A103D	150 , 1000 hrs	Accept
TCT	JESD22-A104D	-65 ~ 150 ,200 cycles, DWELL=15min	Accept
THT (85/85)	JESD22-A101C	85 ,85% RH, 1000hrs	Accept
PCT	JESD22-A102D	121 , 100% RH, 2atm, 168hrs	Accept

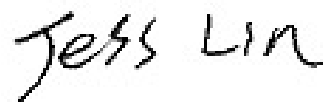
# Cu Wire Reliability Report for AME9172M SOP-8/PP Series Product

**Approved by**



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Manager

**Prepared by**



Jess Lin  
Quality & Reliability Dept.  
Engineer



**Conclusion:**

The AME9172M SOP-8/PP series product has successfully met AME's reliability standard that is required on all AME, Inc products.

Furthermore, QRA Dept. of AME, Inc monitors the reliability continuously to make sure that all AME9172M SOP-8/PP series product will still meet AME's reliability standard in the future.

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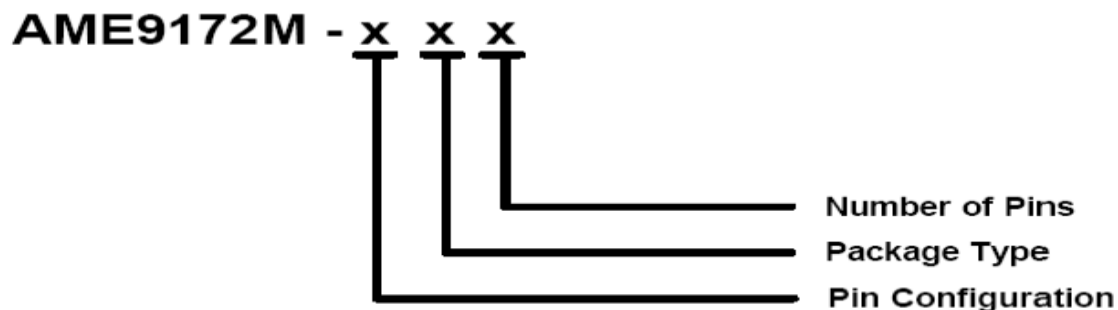
## 、 General Description:

The AME9172M is a voltage regulator which could convert the input voltage ranging from 1.2V to 3.0V to an output voltage that user settled. The regulator can provide 2.4A sourcing or sinking current. The AME9172M used in conjunction with series termination resistors, provides an excellent voltage source for active termination schemes of high speed transmission lines as those seen in high speed memory buses and distributed backplane designs. The AME9172M maintains stable, only requires 10 $\mu$ F (or 10 $\mu$ Fx2) of ceramic output capacitance.

The voltage output of the regulator can be used as a termination voltage for DDR SDRAM.

Current limits in both sourcing and sinking mode, plus on-chip thermal shutdown make the circuit tolerant of the output fault conditions.

## 、 Product Information:



Pin Configuration	Package Type	Number of Pins
<b>A</b> 1. IN 2. GND 3. REFEN 4. OUT 5. NC 6. VCNTL 7. NC 8. NC <small>(SOP-8/PP)</small>	<b>Z</b> : SOP/PP	<b>A</b> : 8



、 Package Reliability Test Result:

Test Item	Test Condition	Sample Size / Failures	Result
HTS	Precondition Temp.=150 Duration=1000 hours	45 pcs / 0 pcs	Pass
THT	Precondition Temp.=85 , R.H.=85% Duration=1000 hours	45 pcs / 0 pcs	Pass
PCT	Precondition Temp.=121 , R.H.=100% 2 atm Duration=168 hours	45 pcs / 0 pcs	Pass
TCT	Precondition -65 ~ 150 200 cycles	45 pcs / 0 pcs	Pass