

To: Customer

PCN # TSBJ11 - 001 –

Date: August 29, 2011

TOSHIBA CORPORATION
SOCIAL INFRASTRUCTURE SYSTEMS
COMPANY

Defense & Electronic Systems Div.
Electronic Systems Marketing Dept.
Microwave Solid State Group

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Announcement of PCN(Process Change Notice)
of Toshiba Microwave Semiconductor Products

Dear Madams and Sirs,

We thank you very much for your continuous patronage to our Microwave Semiconductor products. Taking this opportunity, we are glad to inform you that we are going to change the process of the production. We therefore wish to advise you for your understanding and acceptance of this change.

Sincerely yours

— NOTE —

1. Applicable Product:

All packaged TOSHIBA Microwave Semiconductors

2. Description of change:

Implementation of ball-bonding for internal wire (gold) connection of Microwave Semiconductors

The reliability of ball-bonding has been qualified and the implementation will be conducted with the evaluation process of RF performance conformity, therefore product name, product specifications and packages will not be changed with this implementation.

3. Reason of change:

Upgrade of equipment for the result of discontinuation of wedge bonders

4. Transition Dates:

The change will be implemented with some products after October 2011 and will be expanded to other products respectively. Implementation plan will be shown in Table A.

5. Contact:

If you have further question, please feel free to contact our local Toshiba Office on this matter.

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<Table A>

Transition Plan

TOSHIBA Social Infrastructure Systems Company

Product Family	Oct.'11 to Mar.'12	Apr.'12 to Sep.'12	Oct.'12 to Mar.'13	Apr.'13 to Sep.'13	Oct.'13 to Mar.'14	Apr.'14 to Sep.'14
C-Band Internal Matched GaAs FETs	TIM5964-35SLA TIM5964-60SL TIM7785-60SL TIM5964-45SL TIM7785-45SL	35W-class FETs	60W-class FETs 45W-class FETs	16W-class FETs 80W-class FETs	4W-class FETs 8W-class FETs	30W-class FETs 6W-class FETs 12W-class FETs
X/Ku-band Internal Matched GaAs FETs	TIM1414-30L TIM1314-30L TIM1414-18L TIM1314-15UL	30W-class FETs	18W-class FETs 10W-class FETs 15W-class FETs	5W-class FETs 7W-class FETs 8W-class FETs 9W-class FETs	4W-class FETs 2W-class FETs	
GaN HEMTs			TGI7785-50L TGI7785-120L TGI8596-50	TGI0910-50 TGI1314-50L TGI1414-50L		
GaAs MMICs				MMICs		

Note: The plan will be changed without notice.