



EPPL COMPONENT

Originator: Laurent Marchand

Status: CLOSED

Company: UMS

Accepted: 2011-12-14

EPPL Part: 2

Group: MICROCIRCUITS Subgroup: MICROWAVE MONOLITIC
Part type: INTEGRATED CIRCUITS
(MMIC)

MMICProcessPPH15X-10

Description:

0.15 μm GaAs Power P-HEMT process

Absolute Maximum Ratings (AMR) for PPH15X-10:

- Drain to Source Voltage: $V_{ds} = 8\text{V}$ at $I_{ds} = 150\text{mA/mm}$

- Maximum instantaneous RF Drain to Gate Voltage: $V_{dgmax} = 14\text{V}$ at the maximum DC
Operating point specified above ($V_{ds} = 8\text{V}$ and $I_{ds} = 150\text{mA/mm}$)

- RF Compression = 7dB for Power matched 8x75m cell at $I_{ds} = 150\text{mA/mm}$ and $V_{ds} = 7\text{V}$

- Gate to Source Voltage: $V_{gs} = -2.5\text{V}$

Detail spec:

Package: NA

Manufacturer: UMS

APPROVAL STATUS

Qualification: Others

Other:

Highest screening level (MIL): See EAF Form attached

Evaluation programmes or other approvals: ESCCeval funded by DLR in accordance with 2269010 completed

Former space usage: N/A

PREVIOUS PROCUREMENT AND TEST DATA

Test data (Evaluation, Lot acceptance, DPA, MIL QCI/TCI, ...): See EAF Form attached

RADIATION HARDNESS DATA

Total dose effects: See EAF Form attached

Displacement damage:

Single event effects (SEL/SEU/SET/SEFI/SEB/SEGR/others): See EAF Form attached

REMARKS

SEE testing under DC+RF performed. Report available from supplier.



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