

FROM: Telstar Electronics Engineering

SUBJECT: Memo on Sub-Standard High Power RF Devices

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There is only one legitimate manufacturer of high power/low voltage bipolar type RF transistors at this time. Macom (http://www.macom.com/) remains the only semiconductor company that manufactures these devices that has traceable quality standards. Macom has been in business for over 50 years, and are a major supplier to the US military. Telstar Electronics adheres to strict engineering standards and only uses quality RF semiconductors from reputable manufacturers.

WARNING

The following companies are sourcing sub-standard semiconductors with the following issues:

DEI (2SC2290, 2SC2879)



- No traceable manufacturer.
- No device datasheet.
- No website.
- No fabrication location information.
- No component specifications.
- No quality standards.
- No h_{FE} code on device.

RFT (PP60, PP80, PP100) http://www.rf-transistor.com/category/Shop-1



- No traceable manufacturer.
- No website.
- No fabrication location information.
- Falsified device datasheet (Click Image to View)



- No quality standards.
- No date/lot code on device.

"Mystery" Transistors (Black coated ceramic cap)



- No component markings.
- No traceable manufacturer.
- No device datasheet.
- No website.
- No part number.
- No fabrication location information.
- No quality standards.
- No date/lot code on device.
- No h_{FE} code on device.
- No manufacturer's logo on device.

Eleflow (2SC, MRF) http://www.eleflow.com/	 Most device datasheets are direct copies of original manufacturers. No quality standards.
Advanced Semiconductor Incorporated http://www.advancedsemiconductor.com/index.ht ml	 This India based company has an impressive web site. Company doesn't respond to inquiries about quality manual or standards.
Huagao Semiconductor Co., Ltd. (HG Semiconductor) http://www.hgsemi.com/	 This China based company has an impressive web site. Most specifications are direct copies of original manufacturers. Quality documents shown are incomplete or expired. Company doesn't respond to inquiries about quality manual or standards. No h_{FE} code on device.
American Microsemiconductor (Distributor) http://www.americanmicrosemi.com/	 No manufacturer's datasheet. Quality documents shown are incomplete. No mention of quality manual or standards. No traceable manufacturer. No fabrication location information. No h_{FE} code on device. No manufacturer logo on device.
EKL Components - MOSFETs (ERF-2030, ERF-7530, EN-1230, EN369DR, EN-369FN)	 No traceable manufacturer. No website. No fabrication location information. No quality standards.
UK WIFF207 0412	 No traceable manufacturer. No device datasheet. No website. No fabrication location information. No quality standards. No h_{FE} code on device.

Spectrum Devices http://spectrumdevices.com/



- No quality standards.
- Device datasheets are incomplete.
- No fabrication location information.