

TAILORED TO SPECIFICATIONS

- Fully Customizable to Match Satellite Platform and Payload Requirements
- One High Efficiency Main Output + Two Low Noise Auxiliary Outputs
- Onboard EMC Filters Ensures Compliance Without Additional Filtering
- Input to Output Power Efficiency of up to 93%

FEATURE-RICH

- User Adjustable Voltage for Output 1
- Output Over Voltage Protection
- Active Discharge of Output 1 During Command OFF
- Output ON/OFF Sequencing
- Telecommand Interface and Telemetries



Micross EGB converters offer state of the art performance and is specifically designed for RF GaN SSPA applications. The EGB provides excellent efficiency and low CE, and can be tailored to the specific spacecraft bus and equipment requirements.

RAD-HARD, ITAR FREE
100 kRad and 60 MeV

Design Expertise

Micross' design team helps review and specify payload specific DC-DC converters to ensure maximum compatibility and minimum risk at equipment level. We design, develop, manufacture and test complete DC-DC solutions for effortless payload integration.

Design Flexibility

The EGB converters can be tailored to most satellite platforms and the outputs can be configured to customer specific payload requirements.

Output 1:	+30V to +60V	180W
Output 2:	+2.5V to +15V	1A or 6W max
Output 3:	-2.5V to -15V	1A or 5W max

Rapid Delivery for Tailored Designs:

- 6 Months for Engineering Models
- 9 Months for CDR Datapackage
- 12 Months for Flight Units

Design Datapackage

- Worst Case Analysis
- Radiation Analysis
- Part Stress Analysis
- Reliability Assessment
- Thermal Analysis
- FMECA
- Mechanical Analysis
- Declared Components List
- Declared Process List
- Declared Materials List

Product Control Documentation

- Interface Schematics
- Interface Control Drawing
- User's Manual
- Test Plan
- Acceptance Test Procedure
- EMC Test Procedure and Report
- EIDP (One for Each Deliverable Item)
- Micross Standard Product Assurance Plan
- Compliance Statement for Specification
- Configuration Status List
- SET and Loop Stability Test Reports

Mechanical:

- PCB Outline: 155mm x 70mm x 23.5mm excl. connectors
153mm x 95mm x 25.0mm excl. connectors
- Mass: <300g

Electrical Performance

- WC EOL Output Voltage Accuracy: $\pm 2\%$ including Line and Load
- Load Step Transient Response: $\pm 5\%$ for a 50% to 100% Load Step

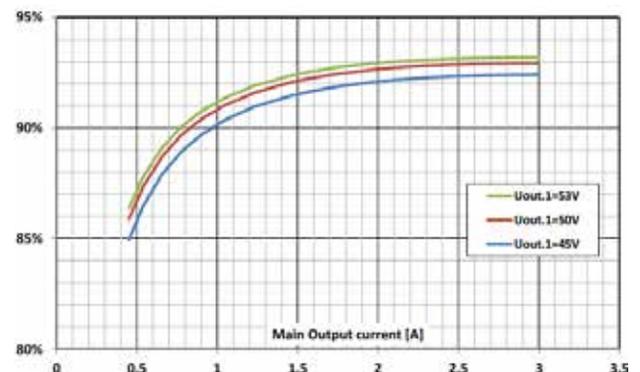
Output CE:

- V1 and V2: < 10.0mVrms (50Hz to 50MHz)
- V3 and V4: < 1.0mVrms (50Hz to 50MHz)

CS Rejection Input to Outputs:

- V1 and V2: > 40dB
- V3 and V4: > 85dB

Typical Efficiency



All 4 Outputs Loaded Equal Relative to Max Load

