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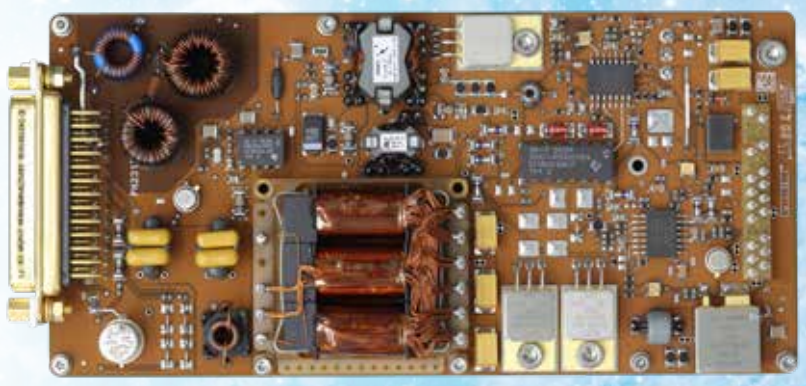
EANR Series

Dual Output DC/DC with Negative Main Output

Product Brief



EANR

Micross EANR offers state-of-the-art performance and is ideal as centralized power supply for RF applications, where a high power negative supply voltage is needed. THE EANR-series includes all features required for cold redundant operation and can be tailored to specifics spacecraft bus & equipment requirements.

RAD-HARD, ITAR FREE
100 kRad and 60 MeV

FEATURES

Electrical Performance

- Centralized EPC for RF Applications
- Designed for Cold Redundant RF-System
- Output OR-ing and Output Over-Voltage Protection
- User Adjustable Voltage for Output 1
- Output ON/OFF Sequencing
- WC EOL Output Voltage Accuracy: ±2% incl. Line and Load
- Load Step Transient Response: ±5% for a 50% to 100% Load Step

Mechanical

PCB: 155mm x 75mm 24.5mm excl. Connectors < 250g

Output CE:

V1: < 1mVrms (50Hz to 50MHz)

V2: < 1mVrms (50Hz to 50MHz)

CS Rejection Input to Output:

V1: > 80dB

V2: > 80dB

Output Configurations

The EANR-series can be tailored to most satellite platforms and the outputs can be configured to customer specific payload requirements.

Output 1: -2.5V to -15V Max 10A / 100W

Output 2: +2.5V to +15V Max 3A / 15W

BENEFITS

- Fully Customizable to Match Satellite Platform and Payload Requirements
- One High Efficiency Main Output and one Low Noise Auxiliary Output
- On-Board EMC Filters Ensures Compliance Without Additional Filtering
- Input to Output Power Efficiency of up to 82%
- Design Data Package & Product Control Documentation Available

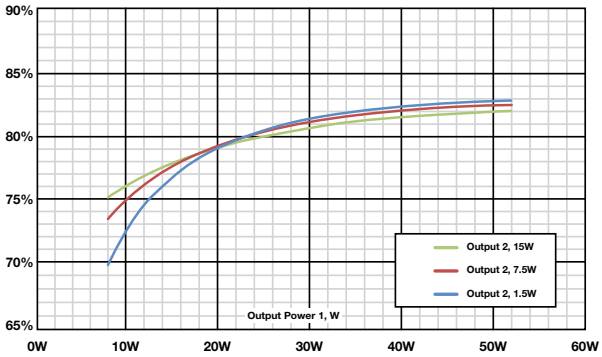
Design Expertise

Our team helps review and specify payload specifics 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.

Rapid Delivery for Tailored Designs:

- 6 Months for Engineering Models
- 9 Months for CDR Data Package
- 12 Months for Flight Units

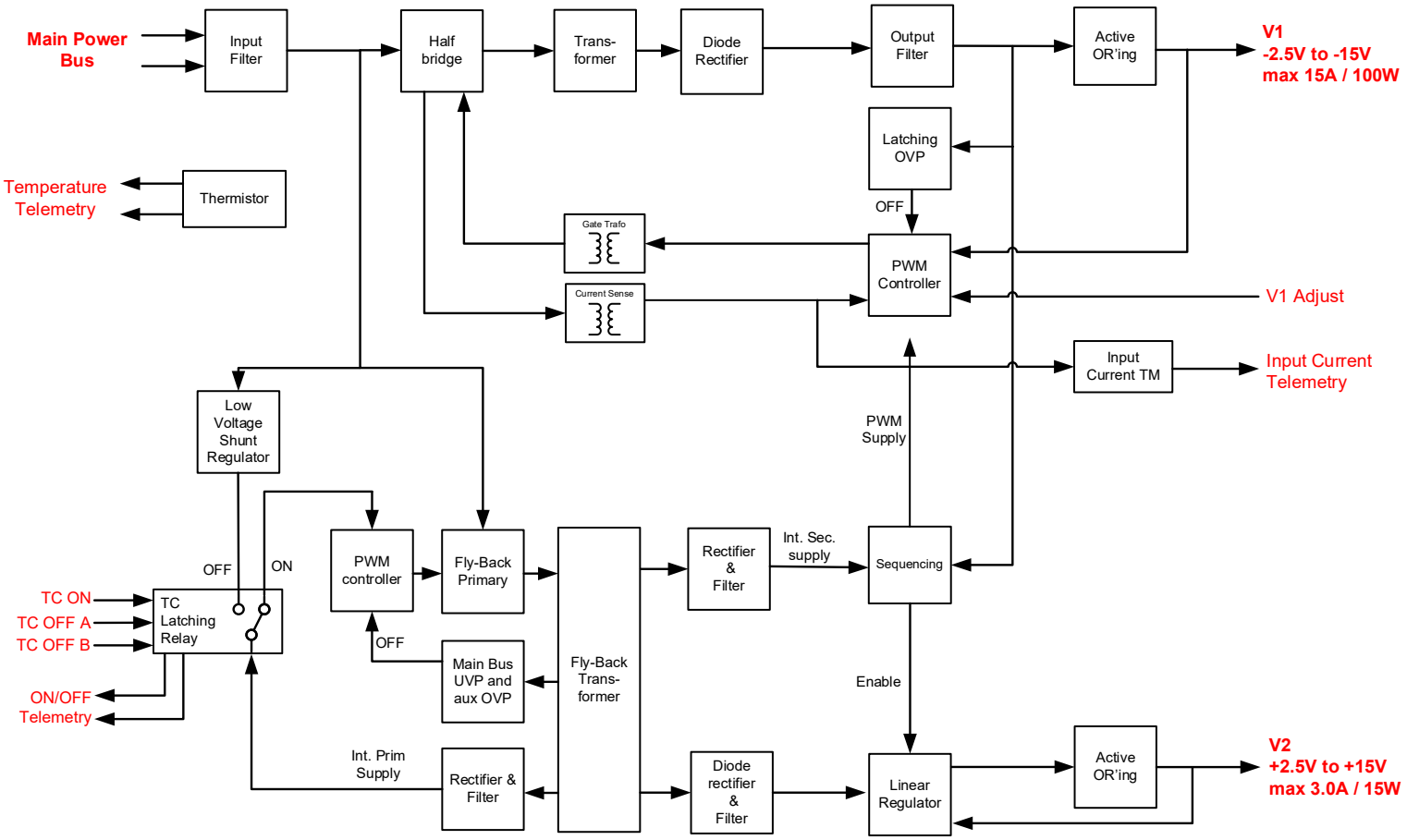
Typical Efficiency



Efficiency vs. Load on Output 1, Parametric with Load on Output 2

EANR Series

GENERIC BLOCK SCHEMATIC



Flight Qualified and Export Approved Configurations				
Part #	Input Voltage	V1	V2	Telecommand Interface
12191	98V - 101V	-5.2V / 10.0A	+5.2V / 3.0A	With Series Diodes, No Quench Diodes
12207	98V - 101V	-5.2V / 10.0A	+5.2V / 3.0A	No Series Diodes, With Quench Diodes

ECCN: 9A515.y.1

About Micross

Micross is the most complete provider of advanced microelectronic services and component, die and wafer solutions. With the broadest authorized access to die & wafer suppliers, an extensive portfolio of hi-rel power, RF, optoelectronics, memory, data bus, logic, and SMD/5962 qualified products, and the most comprehensive advanced packaging, assembly, modification, upscreening, and test capabilities, Micross is uniquely positioned to provide unparalleled high-reliability solutions, from bare die, to fully packaged devices including hermetic ICs/MCMs, PEMs, ASICs, FPGAs, and PCBs, to complete program life-cycle sustainment. For more than 45 years, Micross has been a trusted source for the aerospace, defense, space, medical, energy, communications, and industrial markets.

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