



Instruments For Industry

The Power Of Choice

**Solid State
AMPLIFIERS**

IFI RF & Microwave (Radiated Immunity Testing)

SMC 80-1000MHz & S61 0.7-6.0GHz

GaN Amplifiers



AMETEK®



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SMC Series 80-1000 MHz

**LCD Or Color Touchscreen
Control & Monitoring
without multiple
tabs/screens/pages**

**Ultra Compact 10.5"
High Chassis
configuration**

**Power amplifiers:
Many Models**

**10 W, 25 W, 50 W, 75 W,
100 W, 150 W, 200 W, 250 W,
300 W, 350 W, 500 W, 750 W,
1000 W, 1500 W, 2000 W,
2500 W, 3000 Watts!**

**Model Shown: SMC1000,
80-1000MHz, 1000 Watts**



**Front, Rear or Multiple
RF Connector Locations
Included**

**Remote connections:
LAN, USB, RS232, RS422
RS485, & GPIB**

**Forward & Reflected RF
Sample Ports with Built in
Directional Couplers**



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S61 Series 0.7-6.0 GHz

**LCD Or Color Touchscreen
Control & Monitoring
without multiple
tabs/screens/pages**

**Ultra Compact 5.25"
High Chassis
configuration**

**Model Shown: S61-100,
1.0-6.0GHz, 100 Watts**



**Power amplifiers:
Many Models
10 W, 20 W , 25 W, 40 W,
50 W, 60 W, 75 W, 80W,
100 W, 150 W, 200 W, 250 W,
300 W, 350 W, 400 Watts!**

**Front, Rear or Multiple
RF Connector Locations
Included**

**Remote connections:
LAN, USB, RS232, RS422
RS485, & GPIB**

**Forward & Reflected RF
Sample Ports with Built in
Directional Couplers**



Product Features

- **Highly Reliable GaN technology**
- **Small Compact Rugged Configuration**
- **Designed for rough handling such as EW/ECM Applications**
- **Forward & Reflected Power Indication**
- **Forward & Reflected RF Sample Ports**
- **Modular Design**
- **System Monitoring of Voltages, Currents, Temperatures, Air Flow**
- **Module Current monitoring**
- **Quiet Cool with IFI's "Whisper Mode" Design**
- **VSWR Protection**
- **Elapsed Time Metering of Operational Hours**



Standards

- IEC/EN 61000-4-3
- IEC/EN 61000-4-20
- IEC/EN 61000-4-21
- CISPR 24
- EN 61000-6-1
- EN 61000-6-2
- IEC 60533
- IEC 60601-1-2
- IEC 61326
- MIL STD 461
- RTCA/DO 160
- ISO 11452-2
- ISO 11452-3
- ISO 11452-5
- ISO 11452-11
- SAE J1113-24
- SAE J1113-27
- Others



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Applications

APPLICATIONS/TESTING

- RTCA/DO-160
- MIL-STD-461/462
- IEC-1000-4-6 EMC/EMI
- BCCI
- SAE specifications
- Radiated susceptibility
- Broadband communications
- Biological/Medical
- Space Pre-Qualification
- EMP simulations
- Bellcore

Broad-bandwidth
Units

Ruggedized
Units

Outdoor
Units



BANDS

- Standard Octave Bands
- Narrow Band
- Multi-Band

MODULATIONS

- Continuous Wave
- Pulse
- Pulsed/CW
(Noise Quieted-Blanking)

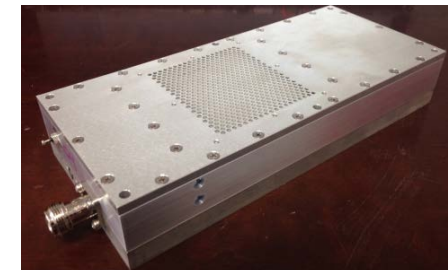
Technologies

- Solid State
- LDMOS & GaN
- Pulse & CW



Field Strengths

- 10V/m, 20 V/M
- 30V/m, 50 V/M
- 100V/m, 200 V/M
- 500V/m, 1,000 V/M



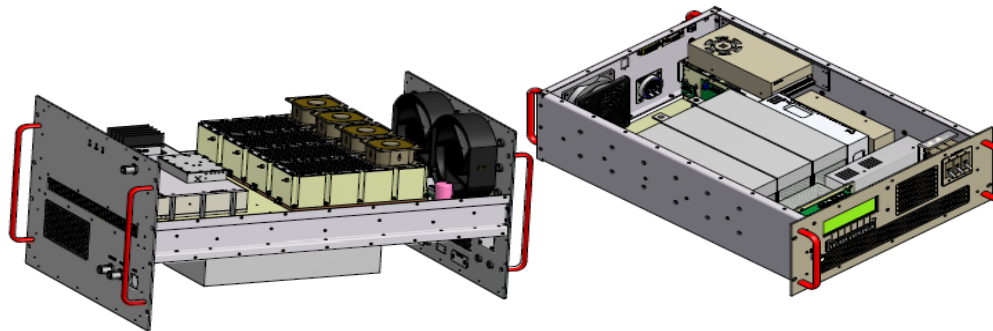


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1500 Watt Modular Configuration



*Ultra Compact 3-drawer
2500 Watt High Power
Amplifier Configuration*



*Ultra Compact 2-drawer
1500 Watt High Power
Amplifier Configuration*



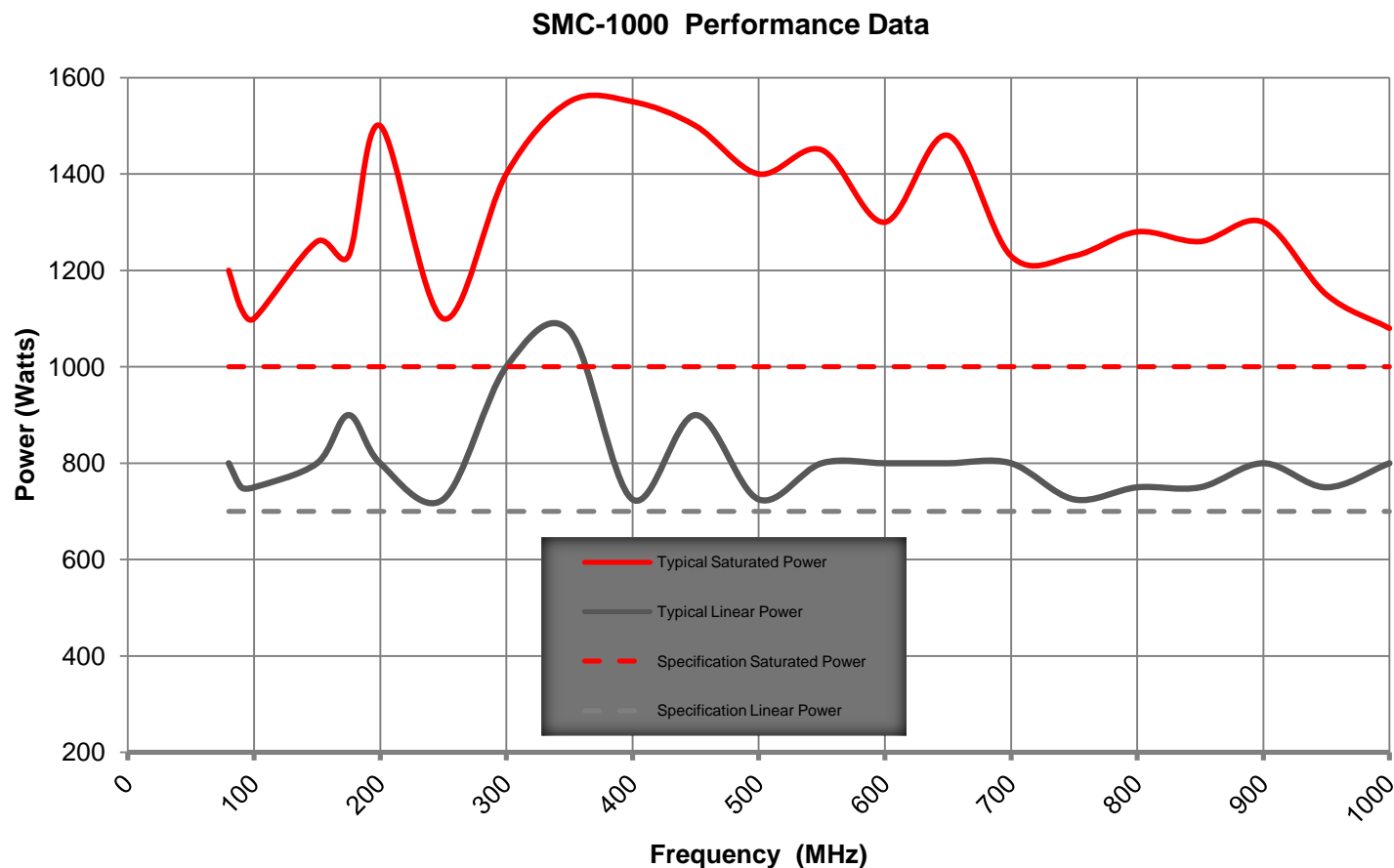
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SMC1000 Performance Data



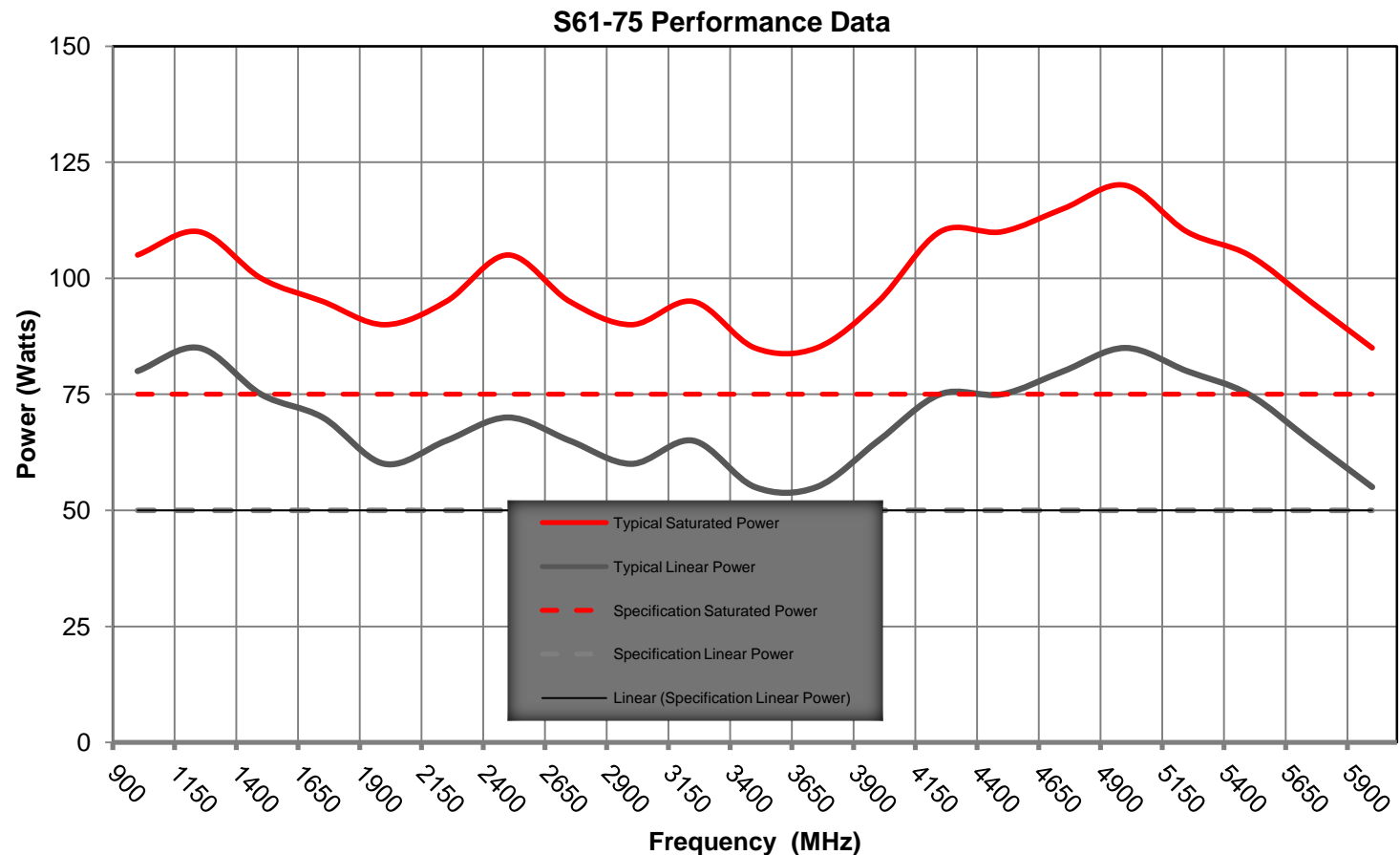


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S61 -75 Performance Data





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Advantages

- ❖ **Smaller compact sizes with no technical disadvantages having more value & features for customer applications!**
- ❖ **USP against other amplifiers**
- ❖ **Rugged Class AB amplifier designs with the latest GaN technology!**
- ❖ **Virtually unlimited configuration and options!**
- ❖ **All monitoring, status, control function on a single display being simultaneously available**
- ❖ **Quiet Cool with IFI's "Whisper Mode" Design for a more pleasurable experience! Not so loud!!**
- ❖ **Liquid cooled optional versions available!**
- ❖ **CW & Pulse models available!**
- ❖ **Various Remote Control communications available!**



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Thank you!