

with or without short-circuit rating. They have an operating temperature of 175°C. (Ea/10,000: \$5.58, IRGPS4067D; \$4.80, IRGP4066DPbF — available now.)

**International Rectifier, El Segundo, CA**  
Sales 310-252-7105 [www.irf.com](http://www.irf.com)

### VCO offers excellent linearity

The CVC055CW-3050-4250 voltage-controlled oscillator (VCO) operates from 3,050 to 4,250 MHz with a control voltage range of 1.5 to 18.5 V. The VCO has a typical phase noise of -84 dBc/Hz at 10 kHz offset. Output power is typically 1.5 dBm.

The part has an input voltage of 5 V and a maximum current consumption of 16 mA, and comes in an industry-standard 0.5 x 0.5-in. SMT package. Pulling and pushing are at 5.0 MHz and 4.0 MHz/V, respectively. (Contact company for price — available now.)

**Crystek, Fort Myers, FL**  
sales@crystek.com [www.crystek.com](http://www.crystek.com)

### Digital power module delivers 17 A

The ZL9117M encapsulated digital power module delivers 17-A output current. It is configured using the point-and-click PowerNavigator GUI. Built-in auto-compensation algorithms optimize transient response over varying load conditions. The modules operate from 4.5 to 13.2 V<sub>in</sub> and provide outputs from 0.6 to 3.6 V, which

can be set by external resistors or the PMBus.

The power module features a low-profile 15 x 15-mm QFN package that provides a power density of 1275 W/in.<sup>3</sup> The 94% peak efficiency and thermal resistance of 11°C/W helps eliminate the need for a heat sink or air flow for most applications. The modules can be connected in parallel for higher-current needs. (\$19.11 ea/1,000 — available now.)

**Intersil, Milpitas, CA**  
Sales 408-432-8888 [www.intersil.com](http://www.intersil.com)

### C-band amps are 43% more power efficient

Designed to be used in satellite earth stations, the MG-FC50G5867 and MGFC47G5867 gallium nitride (GaN) high-electron-mobility transistor (HEMT) C-band (4 to 8-GHz) amplifiers feature power outputs of 100 and 50 W, respectively.

The internally impedance-matched amplifiers also feature low distortion, with output power meeting third-order inter modulation (IM3) = 25 dBc of 46 dBm. (Contact company for pricing and availability.)

**Mitsubishi Electric USA, Cypress, CA**  
Customer Service 714-220-2500  
CustomerCare@meus.me.com  
[www.mitsubishielectric.com](http://www.mitsubishielectric.com)

### 3-phase filters suit renewable-energy apps

The HCWMGF series of filters targets renewable-energy equipment applications. The filters remove RF noise in the 10-kHz to 30-MHz range and are available in three-phase-version L1, L2, and L3 (without neutral) from 150 to 2,500 A, with power losses of less than 0.02%.

The filters are designed specifically for windmill power generation, UPS, inverters, and power inverters, with a maximum operating voltage up to 720 Vac. (Contact company for price — available now.)

**PREMO, Barcelona, Spain**  
Rocio Arrupe +34-934-098-980  
Rocio.arrupe@grupopremo.com  
[www.grupopremo.com](http://www.grupopremo.com)

### Secure antenna fits space constraints

The WRT-MON Series monopole antenna is compact and tamper-resistant, targeting such applications as wireless vending machines, traffic equipment, and power equipment where space is limited and security is important. The antenna takes up much less space than dipole alternatives. It installs through a small hole on the product and is anchored by a threaded metal base connected to the coax cable shield and requires a proximity ground plane.

Available in 2.4 GHz, the antenna is attached to an 8.5-in.-long coax cable with an RP-SMA-, SMA-, or U.FL/MHF-compatible connector on the other end. The RP-SMA and SMA connectors use an RG-174 coax, and the U.FL/MHF connector uses a 1.32-mm micro-coax. (Contact company for price and availability.)

**Antenna Factor, Merlin, OR**  
Information 800-489-1634 info@antennafactor.com  
[www.antennafactor.com](http://www.antennafactor.com)

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