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SYSTEMS & TECHNOLOGY

Second Handset in the Black Label Series Supported by Power Amplifier Module For Quad-Band GSM and EDGE

Skyworks Solutions, Inc., a provider of high performance analog and mixed signal semiconductors enabling mobile connectivity, announced that it is supporting LG Electronics' ramp of its record-selling Shine handset. The Shine, which is LG's second model from its premium Black Label Series, is leveraging the SKY77340, a highly integrated quad-band EDGE power amplifier – used to support the world's largest markets in Europe and the US. Skyworks' modules are also being utilized across LG's GPRS and CDMA Chocolate phones, which have sold ten million units globally since the end of 2005.

LG's Shine weighs 115 grams, stemming from its unique stainless steel material base. Its numerous features, including expandable memory, an auto-focus 20 megapixel camera, comprehensive media player, Bluetooth and USB connectivity, have also helped fuel its consumer appeal.

"Skyworks is pleased to be supporting LG across a number of their most popular platforms," said Brian M. Daly, Skyworks' vice president of marketing. "Our integrated solutions and strong capabilities across all air interfaces allow LG and other handset manufacturers to produce feature-rich mobile phones with ground-breaking technology and unique design that

have proven to be very popular with consumers."

The SKY77340 PAM is designed in a compact form factor for quad-band GSM and EDGE cellular handsets. Two separate heterojunction bipolar transistor (HBT) PA blocks are fabricated onto indium gallium phosphide (InGaP) die. Inputs and outputs are impedance matched to 50 ohms, and a custom complementary metal oxide semiconductor (CMOS) integrated circuit (IC) provides internal multi function control (MFC) and interface circuitry.

The InGaP die, the silicon die, and passive components are mounted on a multi-layer laminate substrate and the assembly is encapsulated with plastic overmold. The circuitry regulates PA-bias conditions, reducing

sensitivity to temperature, power supply, and process variation. The enable input signal provides a standby state to minimize battery drain. All of this comes in lead (Pb)-free, restriction of hazardous substances (RoHS)-compliant packaging.



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