

Analog Circuits and Signal Processing

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Batteryless mm-Wave Wireless Sensors

 Springer

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List of Abbreviations

AC	Alternating current
ADC	Analog-to-digital convertor
AoC	Antenna on chip
BAN	Body area network
BER	Bit error rate
BW	Bandwidth
CG	Common gate
CMOS	Complementary metal oxide semiconductor
CS	Common source
DAC	Digital-to-analog convertor
DC	Direct current
EBM	End-of-burst monitor
EIRP	Equivalent isotropic radiation power
EVM	Error vector magnitude
FCC	Federal communications commission
GaAs	Gallium arsenide
HF	High frequency
IC	Integrated circuit
IIP3	Input-referred third-order intercept point
IJLO	Injection locked oscillator
IR-UWB	Impulse radio ultra-wideband
ISM	Industrial scientific medical
LF	Low frequency
LNA	Low noise amplifier
LO	Local oscillator
LPF	Low pass filter
MiM	Metal insulator metal

MMID	mm-Wave identification
mm-Wave	Millimeter wave
MoM	Metal oxide metal
NEF	Noise excess factor
NF	Noise figure
OOK	On off keying
PA	Power amplifier
PREMISS	Power reduced monolithic wireless sensor networks
RF	Radio frequency
RFID	Radio frequency identification
RTWU	Radio triggered wake-up
Rx	Receiver
SiGe	Silicon germanium
SNR	Signal-to-noise ratio
SPDT	Single pole double throw
SPICE	Simulation program with integrated circuit emphasis
SPST	Signal pole single throw
TE	Transverse electric
Tx	Transmitter
UHF	Ultra high frequency
ULP	Ultra low power
UWB	Ultra wide band
VCO	Voltage controlled oscillator
VGA	Variable gain amplifier
WPT	Wireless power transfer
WSN	Wireless sensor network
WuRx	Wake-up receiver