

GLOSSARY OF TERMS

Abbreviations and Acronyms

ADC	analogue to digital converter
ASIC	application specific integrated circuit
BCI	bulk current injection
BEM	boundary element method
BiCMOS	bipolar and CMOS
BGA	ball grid array
BJT	bipolar junction transistor
BNC	Bayonet Neill-Concelman
CAD	computer-aided design
CD	compact disk
CMOS	complementary metal oxide semiconductor
CMRR	common mode rejection ratio
DAC	digital-to-analogue converter
DIL	dual-in-line
DRAM	dynamic random access memory
DRC	design rule checker
DSO	digital storage oscilloscope
EC	European Community
ECAD	electronic computer-aided design
ECL	emitter coupled logic
EDA	electronic design automation
EFT	electrical fast transient
EM	electromagnetic
EMC	electromagnetic compatibility
EMF	electromotive force
EMI	electromagnetic interference
EN	European Norme
ESD	electrostatic discharge
ESL	equivalent series inductance
ESR	equivalent series resistance
FATID	frequency, amplitude, time, impedance and dimensions
FDTD	finite difference time domain
FEM	finite element method
FET	field effect transistor
FEXT	far end cross-talk
FPGA	field programmable gate array

GDT	gas discharge tube
GTEM	GHz transverse electromagnetic
GTL	gunning transistor logic
HD	high density
HM	hard metric
IBIS	input/output buffer information specification
IDC	internal data channel
IC	integrated circuit
IGBT	insulated gate bipolar transistor
IRQ	interrupt request
ISM	industrial, scientific and medical equipment
ITE	information technology equipment
JFET	junction field effect transistor
LDO	low drop out (regulator)
LED	light-emitting diode
LVD	low voltage directive
LVDS	low voltage differential signalling
MLCC	multilayer ceramic chip capacitor
MLV	multilayer varistor
MOM	method of moments
MOSFET	metal oxide semiconductor field effect transistor
MOV	metal oxide varistor
NEXT	near end cross-talk
NRZ	non-return to zero
NRZI	non-return to zero inverted
OEM	original equipment manufacturer
OTP	one time programmable
PC	personal computer
PCB	printed circuit board (also printed wiring board)
PCMCIA	Personal Computer Memory Card Industry Association
PECL	pseudo emitter coupled logic
PGA	pin grid array
PLCC	plastic leadless chip carrier
PLA	programmable logic array
PLL	phase locked loop
PSDC	power supply damping circuit
PSU	power supply unit
PTH	plated through hole
PWB	printed wiring board (PCB used here)
PWM	pulse width modulation
QFP	quad flat pack
RAM	random access memory
RF	radio-frequency
RFI	radio-frequency interference
ROM	read only memory
RTOS	real-time operating systems

SCI	scalable coherent interface
SCR	silicon controlled rectifier
SI	signal integrity
SM	surface mount
SMD	surface mount device
SMPS	switched mode power supply
SMT	surface mount technology
SPICE	simulation program with integrated circuit emphasis
SRAM	static random access memory
SRF	self-resonant frequency
SSC	spread spectrum clock
SSR	solid state relay
STP	shielded twisted pair
TAB	tape automated bonding
TBU	transient blocking unit
TCF	technical construction file
TEM	transverse electromagnetic
TLM	transmission line matrix
TTL	transistor transistor logic
TVS	transient voltage suppressor
UART	universal asynchronous receive and transmit
UHF	ultra high frequency
UTP	unshielded twisted pair
VHF	very high frequency
VCO	voltage-controlled oscillator
VDR	voltage-dependent resistors
VME	virtual memory extended
ZIF	zero insertion force
ZCS	zero current switching
ZVS	zero voltage switching

International Standards Bodies and Institutions

ANSI	American National Standards Institute
BAPT	Bundesamt für Post und Telekommunikation (Germany)
BSI	British Standards Institute
CCITT	International Telephone and Telegraph Consultative Committee
CEI	Italian Electrotechnical Committee
CENELEC	Comite European de Normalisation Electrotechnique
CISPR	Comite International Special des Perturbations Radioelectriques
CSA	Canadian Standards Authority
DEMKO	Dansk Standards (Denmark)
DIN	Deutsches Institut für Normung (Germany)
DKE	Deutsches Elektrotechnische Kommission in DIN und VDE (Germany)
DTI	Department of Trade and Industry (UK)
EIA	Electronic Industries Association
ETCI	Electrotechnical Council of Ireland
ETSI	European Telecommunications Standards Institute
FCC	Federal Communications Commission (US)
HDTP	Hoofdirectie Telecommunicatie en Post (Netherlands)
IEC	International Electrotechnical Commission
ISO	International Organisation for Standardization
ITU	International Telecommunication Union
JISC	Japanese Industrial Standards Committee
NAMAS	National Measurement Accreditation Service (UK)
NEMKO	Norsk Elektroteknisk Komite (Norway)
NSF	Norges Standardiseringsforbund (Norway)
OVE	Osterreichisher Verband für Electrotechnik (Austria)
SAA	Standards Australia
SCC	Standards Council of Canada
SFS	Suomen Standardoimislitto (Finland)
SEMKO	Svenska Elektriska Kommissionen (Sweden)
SESKO	Finnish Electrotechnical Standards Organisation
SEV	Schweiz Elektrotechnischer Verein (Switzerland)
SIRIM	Standards and Industrial Research of Malaysia
UL	Underwriters Laboratory (USA)
UNI	Ente azionale Italiano di Unificazione (Italy)
VCCI	Voluntary Council for Interference by Data Processing Equipment and Electronic Office Machines (Japan)
VDE	Verband Deutsche Electrotechniker (Germany)