
List of Acronyms

2G	2 nd Generation
3G	3 rd Generation
4G	4 th Generation
AMPS	Advanced Mobile Phone System
BMA	Bended Monopole Antenna
BSO-NM	Bacterial Swarm Optimization And Nelder-Mead
CDMA	Code Division Multiple Access
CST MWS	Computer Simulation Technology Microwave Studio
CTIA	Cellular Telecommunication Industry Association
DBS	Direct Broadcast Satellite
DCS	Digital Cellular Service
DCS	Digital Communication System
DMB	Digital Multimedia Broadcasting
EMC	Electromagnetic Compatible
FCC	Federal Communications Commission
FEM	Finite Element Method
FIT	Finite Integration Technique
F-PIFA	Fractal Planar Inverted F Antenna
FS-PIFA	Full Short Circuit Planar Inverted-F Antenna
GLONASS	Global Navigation Satellite System
GPS	Global Positioning System
GSM	Global System For Mobile Communications
HAC	Hearing-Aid Compatibility
HFSS	High Frequency Structure Simulator
HWLLS	Half-Wavelength Loaded Line Structure
IFA	Inverted-F Antenna
IHA	Internal Handset Antenna
IMT	International Mobile Telecommunications
ISM	Industrial, Scientific And Medical

LCD	Liquid Crystal Display
LTCC	Low Temperature Co-Fired Ceramic
LTE	Long Term Evolution
MEMS	Micro Electro Mechanical Systems
MSA	Microstrip Antennas
MSS	Mobile Satellite Service
PCB	Printed Circuit Board
PCS	Personal Communications Service
PDA	Personal Digital Assistant
PEC	Perfect Electric Conductor
PIFA	Planer Inverted-F Antenna
PIL	Planar Inverted-L
RCDLA	Radiation-Coupled Dual-L Antenna
SAM	Specific Anthropomorphic Mannequin
SAR	Specific Absorption Rate
SC-MSA	Short - Circuit Rectangular Microstrip Antennas
TRP	Total Radiated Power
UMTS	Universal Mobile Telecommunications Systems
USPCS	US Personal Communications Service
UWB	Ultra Wideband
VLP	Very-Low-Profile
VNA	Vector Network Analyser
VSWR	Voltage Standing Wave Ratio
WCDMA	Wideband Code Division Multiple Access
WiBro	Wireless Broadband
Wi-Fi	Wireless Fidelity
WiMAX	Worldwide Interoperability For Microwave Access
WLAN	Wireless Local Area Network