

## **电磁兼容(emc)专用术语 (Electromagnetic compatibility (EMC) terminology)**

Electromagnetic compatibility (EMC) special term. Txt, I do not expect anything, only hope that you later woman one as good as one. I remember when ah, hot days when I can be like a shirtless man! Electromagnetic compatibility (EMC) terminology

Electromagnetic environment, electromagnetic, environment

The sum of all electromagnetic phenomena in a given place.

Electromagnetic noise electromagnetic noise

Rated current is defined as the allowable safety current of the filter when the ambient temperature is 40 DEG C at the specified frequency and voltage.

Unwanted, signal, undesired, signal

A signal that may impair the reception of a useful signal.

Electromagnetic harassment electromagnetic, disturbance

Any electromagnetic phenomenon that may cause a reduction in the performance of a device or a system or damage to a living or nonliving substance.

Note: electromagnetic disturbances may be electromagnetic noise, unwanted signals, or changes in the medium itself.

Electromagnetic interference, electromagnetic, interference  
(EMI)

A deterioration in equipment, transmission, passage, or  
system caused by electromagnetic interference.

Electromagnetic compatibility, electromagnetic,  
compatibility (EMC)

A device or system that operates in its electromagnetic  
environment and does not constitute an electromagnetic  
disturbance that is not subject to any electromagnetic  
interference in the environment.

(electromagnetic) emission (electromagnetic) emission

The phenomenon of emitting electromagnetic energy outward  
from a source.

(of radio communication) emission communication (in radio)

A radio wave or signal produced and emitted by a radio  
transmitting station.

(electromagnetic) radiation (electromagnetic) radiation

The phenomenon that energy is emitted from source to space  
in the form of electromagnetic waves.

Energy travels in space in the form of electromagnetic

waves.

Note: the meaning of the term "electromagnetic radiation" can sometimes be extended, and electromagnetic induction is also included.

Radio environment radio environment

The electromagnetic environment within the radio frequency range

The sum of the electromagnetic fields produced by all radio transmitters operating in a given place.

Radio (frequency) noise radio (frequency) noise

Electromagnetic noise with radio frequency components.

Radio (frequency) harassment radio (frequency) disturbance

Electromagnetic interference with radio frequency components.

Radio frequency interference radio, frequency, interference (RFI)

A decrease in reception performance of a useful signal caused by radio harassment.

Inter system interference, inter-system, interference

Electromagnetic interference caused by electromagnetic interference of another system to a system.

Intra system interference, intra-system, interference

Electromagnetic interference caused by electromagnetic disturbance in the system.

Natural noise natural, noise

Electromagnetic noise arising from natural phenomena rather than artificial devices.

Human noise man-made noise

Electromagnetic noise from an artificial device.

(performance) lower degradation (of performance)

Undesirable deviations in the performance of a device, a device, or a system with normal performance.

(immunity against harassment) immunity (to, a, disturbance)

Installations, equipment, or systems are subject to electromagnetic harassment without reducing operational performance.

(electromagnetic) sensitivity (electromagnetic) susceptibility

In the presence of electromagnetic disturbances, the ability of a device, a device, or a system to avoid performance degradation.

Note: high sensitivity and low immunity.

Electrostatic discharge electrostatic, discharge (ESD)

Charge transfer caused by objects with different electrostatic potential near or direct contact with each other.

The level level (of, time, varying, quantity)

Average or weighted value of a time variable, such as power or field parameters, obtained in a prescribed manner within a specified time interval.

Limit of harassment limit of disturbance

Maximum permissible permissible level of electromagnetic disturbance corresponding to prescribed measurement method.

Interference limits limit, of, interference

Electromagnetic interference reduces the maximum allowable performance of a device, a device, or a system.

(electromagnetic) compatibility level (electromagnetic) compatibility level

The maximum electromagnetic disturbance level specified in a device, device, or system operating at specified conditions.

Emission level (emission level (of, disturbance, source, a) of a disturbance source)

A given electromagnetic disturbance level measured by a specified device, device, or system in a specified manner.

The emission limit (emission limit (from, disturb, source, a)) from the source of disturbance

Specifies the maximum emission level of an electromagnetic disturbance source.

Immunity level immunity level

The maximum disturbance level that applies a given electromagnetic disturbance to a device, a device, or a system while still functioning properly and maintaining the desired performance level.

Immunity limit immunity limit

Specified minimum immunity level.

Immunity margin immunity margin

The difference between the limits of immunity of an apparatus, a device, or a system, and the level of an

electromagnetic compatibility.

(electromagnetic) compatibility margin (electromagnetic)  
compatibility margin

The difference between the immunity limit of a device, a device, or a system and the emission limit of a disturbance source.

Harassment suppresses disturbance suppression

Measures to weaken or eliminate harassment.

Interference suppression, interference, suppression

Measures to weaken or eliminate interference.

Launch margin emission margin

The difference between the electromagnetic compatibility level and the emission limit of a device, a device, or a system.

Transient () transient (adjective, and, noun)

The physical quantities and physical phenomena that change between two adjacent stable states, whose change time is less than the time scale of concern.

Pulse pulse

A physical quantity that changes in a short time and then returns rapidly to its initial value.

Impulse pulse impulse

A pulse that is similar to a unit pulse or a Dirac function for a given purpose.

Spike pulse spike

A unidirectional pulse with a shorter duration.

Rise time (pulse) rise time (of, a, pulse)

The time at which a transient value of a pulse rises from a given limit value to a given upper limit.

The rising rate is rate of rise

An average rate in time within a specified numerical range, i.e., from 10% to 90% of the peak.

Burst (pulse or oscillation) burst (of, pulses, or, oscillations)

A series of finite definite pulses or a finite duration oscillation.

Impulsive noise impulsive noise

A noise occurring on a particular device and characterized



by a series of clear pulses or transients.

Pulse disturbance impulsive, disturbance

Electromagnetic disturbance occurring on a particular device or device and characterized by a series of clear pulses or transients.

Continuous noise continuous noise

The effect of a particular device cannot be broken down into a string of clear discernible effects.

Continuous harassment of continuous disturbance

Electromagnetic interference in a particular device that can not be broken down into a string of clearly distinguishable pulses.

Power harassment mains-borne disturbance

Electromagnetic disturbance transmitted to a device via a power line.

Power immunity mains immunity

Immunity to disturbance of power supply.

Power decoupling factor mains decoupling factor

The ratio of the voltage applied to a specified position of

the power source to the voltage applied to the device to specify the input and to produce the same disturbance effect on the device.

Enclosure radiation Cabinet radiation

Radiation produced by the enclosure of the equipment, excluding the radiation produced by the antenna or cable.

Internal immunity internal immunity

The ability of a device, device, or system to function normally without performance degradation when electromagnetic interference is present at its conventional input or antenna.

The coupling coefficient is coupling factor

In a given circuit, the electromagnetic quantity (usually voltage or current) is coupled from one prescribed position to another, the target position and the source position

The ratio of the corresponding electromagnetic quantities is the coupling coefficient.

Coupling path coupling path

The path in which part or all of electromagnetic energy is transmitted from a specified circuit to another circuit or device.

Shielding screen

Measures used to reduce the penetration of a field into a specified area.

Electromagnetic shielding, electromagnetic, screen

Shielding of an alternating electromagnetic field through a specified region by means of a conductive material.

The reference impedance is reference impedance

An impedance that has a specified value to calculate or measure electromagnetic disturbances produced by a device.

Engineering medical (approved) equipment ISM (qualified equipment)

A device designed to produce and use radio frequency energy locally and in accordance with industrial, scientific, medical, household, or similar requirements

Or device. Excluding equipment used in the field of communications.

Acronym for electromagnetic compatibility (EMC)

A. C. Or AC

Alternating current alternating current

ACEC

Advisory Committee on electromagnetic compatibility EMC  
Advisory Committee

ADSL

Asymmetric DSL asymmetric digital subscriber loop

AE

Auxiliary equipment auxiliary equipment

AF

Audio frequency audio

AM

Amplitude modulation amplitude modulation

AN

Access network access network

ANE

Access network equipment access network equipment

CDMA

International Conference on large HV Electric Systems  
International Power Grid Conference

CISPR

International Special Committee on radio interference  
international radio interference special committee

CPE

Customer premises equipment user resident equipment

CRT

Cathode ray tube cathode ray tube

D. c. or DC

Direct current direct current

DPF

Dedicated power feed dedicated for (feed) electricity

DSL

Digital subscriber loop digital subscriber loop

EFT/B

Electrical, fast, transient, /burst electrical fast transients

/ sudden

EIRP

Equivalent, isotropically, radiated, power, equivalent  
isotropic radiated power

EMC

Electromagnetic compatibility electromagnetic compatibility

EMF

Electromotive, force electromotive force

EMF

Electromagnetic field electromagnetic field

EPR

Earth, potential, rise, ground potential rise

ERP

Effective, radiated, power, effective radiated power

ESD

Electrostatic discharge electrostatic discharge

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EUT

Equipment under test equipment

GDT

Gas, discharge, tube gas discharge tube

GV

High voltage high voltage

ICNIRP

International Commission on non-ionizing radiation protection

International Commission on non ionizing radiation protection

IEC

International Electrotechnical Commission International

Electrotechnical Commission

ISDN

Integrated Services Digital Network Integrated Services

Digital Network

ISM

Industrial, scientific, and, medical (equipment), industrial,

scientific, and medical (equipment)

ITE

Information technology EQUIPMENT information technology  
equipment

ITU-T

国际电信联盟电信标准化部门

国际电信联盟电信标准局

LCL

纵向转换损耗纵向转换损耗

37.

纵向转换损耗纵向转换传输损耗

乐

本地交换本地交换

雷电电磁脉冲

雷电电磁脉冲雷电电磁脉冲

锂

线路接口线路接口



LPS

防雷系统雷电保护系统

防雷区

雷电保护区雷电保护区

书信电报

线路终端线路终端

中密度纤维板

主配线架总配线架

压敏电阻

金属氧化物压敏电阻金属氧化压敏电阻

NA

不适用不可用

NT

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开路开放电路

PFV

供电电压供电电压

PNI

公共网络接口公用网接口

PRBS

伪随机比特序列伪随机比特序列

PSTN

公共交换电话网络公用交换电话网

PTC

正温度系数（电阻）正温度系数

射频

射频无线电频率

RFI

无线电频率干扰射频接口

RFT

远程通信线路的远供通信电路喂养

rft-g

远程通信电路的电流限制远供通信电路—限电流喂养

rft-v

远程通信电路的电压限远供通信电路—限电压喂养

RSE

遥控开关设备远端交换设备

沙特阿拉伯

比吸收比吸收能

沙特阿拉伯

半导体避雷器半导体避雷器

SAA

半导体避雷器组件半导体避雷器组件

SAR

比吸收率吸收率

活力

吸收功率吸收功率

02

安全特低电压安全超低电压

SLIC

用户线接口电路用户线路接口电路

SPD

浪涌保护器浪涌保护元件

SPL

声压级声压级

SSA

固体避雷器固体避雷器

TCE

电信中心装备电信中心设备

TDMA

时分多址时分多址

TN

主干网干线网

TNV

电信网络的电压电信网电压

RSD

通用串行总线通用串联总线

RPS

不间断电源不间断电源

VDSL

甚高速数字用户线调整用户数字环路

显示器

视觉显示装置视频显示单元

UIC

国际铁路联盟国际铁路联盟

xDSL

数字用户回路数字用户环路