



INTERNATIONAL TELECOMMUNICATION UNION

**ITU-T**

**G.224**

TELECOMMUNICATION  
STANDARDIZATION SECTOR  
OF ITU

**INTERNATIONAL ANALOGUE CARRIER SYSTEMS  
GENERAL CHARACTERISTICS COMMON TO ALL  
ANALOGUE CARRIER-TRANSMISSION SYSTEMS**

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**MAXIMUM PERMISSIBLE VALUE FOR THE  
ABSOLUTE POWER LEVEL (POWER  
REFERRED TO ONE MILLIWATT) OF  
A SIGNALLING PULSE**

**ITU-T Recommendation G.224**

(Extract from the *Blue Book*)

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## NOTES

1 ITU-T Recommendation G.224 was published in Fascicle III.2 of the *Blue Book*. This file is an extract from the *Blue Book*. While the presentation and layout of the text might be slightly different from the *Blue Book* version, the contents of the file are identical to the *Blue Book* version and copyright conditions remain unchanged (see below).

2 In this Recommendation, the expression “Administration” is used for conciseness to indicate both a telecommunication administration and a recognized operating agency.

**Recommendation G.224**

**MAXIMUM PERMISSIBLE VALUE FOR THE ABSOLUTE POWER LEVEL (POWER REFERRED TO ONE MILLIWATT) OF A SIGNALLING PULSE <sup>1</sup>**

The CCITT recommends that, for crosstalk reasons, the absolute power level of each component of a short duration signal should not exceed the values given in Table 1/G.224.

TABLE 1/G.224  
**Maximum permissible value, at a zero relative level point**

Signalling frequency (Hz)	Maximum permissible power for a signal at a zero relative level point (microwatts)	Corresponding absolute power level Decibels referred to 1mW (dBm0)
800	750	-1
1200	500	-3
1600	400	-4
2000	300	-5
2400	250	-6
2800	150	-8
3200	150	-8

*Note 1* - If the signals are made up of two different frequency components transmitted simultaneously, the maximum permissible values for the absolute power levels are 3 dB below the above values.

*Note 2* - The values given in this table result from a compromise between the characteristics of various channel filters now in existence.

**Reference**

- [1] CCITT Recommendation *Maximum permissible value for the absolute power level of a signalling pulse*, Vol. VI, Rec. Q.16.

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<sup>1</sup> This Recommendation applies both to national and to international signalling systems.