



## DEF

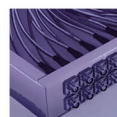
### Definitions:

Level and power measures	
dB $\mu$ V	Voltage level in relation to 1 $\mu$ V (Interpretation: "by how many dB is a voltage higher than 1 $\mu$ V")
dBmV	Voltage level in relation to 1 mV (Interpretation: "by how many dB is a voltage higher than 1 mV")
dBm	Power level in relation to 1 mW (Interpretation: "by how many dB is a power higher than 1 mW")

Converting formulas
$\text{dB}\mu\text{V} = \text{dBmV} + 60 \text{ dB}$
$\text{dBmV} = \text{dB}\mu\text{V} - 60 \text{ dB}$
$\text{dB}\mu\text{V} = \text{dBm} + 108.75 \text{ dB (with } Z = 75 \Omega)$
$\text{dB}\mu\text{V} = \text{dBm} + 107.00 \text{ dB (with } Z = 50 \Omega)$

Frequency bands	
HF: High Frequency	3 MHz ... 30 MHz
VHF: Very High Frequency	30 MHz ... 300 MHz
UHF Ultra High Frequency	300 MHz ... 3 GHz

Level relations in a broadband cable network	
System level (traditionally)	PAL image carrier level
DVB-C / DOCSIS $\leq 3.0$ @ 64 QAM	PAL - 10 dB
DVB-C / DOCSIS $\leq 3.0$ @ 256 QAM	PAL - 4 dB



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