

NEW
Product

Digital Antenna **DAT45** (Ref. 1095) Margin Rising Device (MRD) (Ref. 5050)



FEATURES

- Optional Dynamic Margin Rising Device (MRD) (delivered with the assembled dipole): elimination of the impulsive noise of the Digital TV signal. Without power supply, allows signal pass
- F connectors
- Fully shielded

PRODUCT RANGE

Reference	Description
1095	DAT 45 UHF Antenna
5050	Margin Rising Device (MRD)

TECHNICAL SPECIFICATIONS

Reference		1095	Reference		1095 with MRD
Frequency range	(MHz)	470 - 862	Frequency range	(MHz)	470 - 862
Gain	(dB)	16,5	Gain	(dB)	29,5
F/B ratio	(dB)	28	Output level	(dBuV)	102
Offset angle	(°)	30	Noise figure	(dB)	2 typ.
Elevation angle	(°)	35	Power supply	(V=)	24*
Polarisation		Horizontal/Vertical	Consumption	(mA)	30
Length	(mm)	1.200			
Number of elements		45			

*DIN 45004B

* Optional 12 volts under order

USEFUL INFO

Impulsive noise does not last long and is characterised by a fast risetime. It can appear both in the UHF and in the VHF band. Man's industrial activity pollutes the RF spectrum with these signals that affect other carriers the TV channels. The polluting agents are the power lines, car ignitions or home appliances. COFDM digital receivers can be affected and work incorrectly if the impulsive noise is considerable; the image freezes for a moment or disappears entirely. To solve this problem, a higher input signal level is necessary in the digital receiver.

The **DAT45 antenna** and **MRD** work together to achieve the best reception for digital terrestrial TV. The impulsive noise can enter the network mainly via the antenna, the mast amplifier or the cable. An antenna with a high level of directivity like the DAT45, adequately orientated, will not receive the impulsive noise from the surroundings. On the other hand, the MRD (as it is located next to the dipole) avoids the amplification of the noise that would enter via the cable if it were situated on the mast. The diecast chassis helps to avoid the entrance of noise through the box. The 12 dB gain, makes the signal levels higher without making the analogue channels cause the saturation of the digital receivers.

**NEW
PRODUCTS**

Televés

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Margin Rising Device



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Reference		1095 with MRD
Frequency range	(MHz)	470 – 862
Gain	(dB)	13 ±. 1
Output level	(dBmV)	102*
Noise figure	(dB)	2 typ.
Power supply	(V=)	12/24
Consumption	(mA)	30

* DIN 45004B

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