

miniature cylindrical bodies with a diameter of 11 mm filtres, attenuators

series
W

PTH MATT manufactures more than a dozen different bodies, in which passive components used in cable television networks are manufactured and in individual and collective antenna installations.

The cylindrical bodies (production symbol FOT) belong to the smallest ones, they are comfortable to assemble and provide high efficiency **Class A** shielding (> 85 dB). These bodies produce elements that do not require complicated electronic structures - relatively simple frequency filters (**WFD .., WFG .., WFP ..**) and step attenuators - both broadband (**WTS ..**) and reverse path (**WTK ..**).

The main advantage of cylindrical bodies is the use of male F connectors / F female as the connection of IN-OUT and small size of external diameter (11 mm) enabling direct assembly on multitaps or splitters - without the need for additional connectors or wires.

Another big advantage of cylindrical bodies is their undevelopable design. The production technology used prevents the subscriber from interfering with the interior of the device, and if this happens, there are clear traces of such interference. For example, it is not possible for the subscriber to bypass the filters and short-circuit the input with the output, which happens in networks where packetization occurs.

The cylindrical body is made of brass by machining and is nickel plated as standard. It is possible to create elements of the W series (WFD, WFG, WFP, WTK) also with NiTin coating (nickel - tin, Ni - Sn) - eg WFG 18 / ns or WTK 2 / ns.

The appearance and application of the above bodies are shown below. The filters are usually made according to the individual needs of the customer. However, filters of the WF series, performed in miniature cylindrical bodies, are usually characterized by typical parameters and are used by many users.

A variation of WFD filters are, for example, LTE filters blocking the LTE band in the TVK band, which is often the cause of interference. Interference filters - eg WFG 18 - are used to eliminate interference in TVK networks, which are high-pass filters blocking interference in the reverse channel band.



**Cylindrical body
FOT) of W series
products.**

**Low pass filters
WFD**

**Hight-pass filters
WFG**

**Band-pass filters
WFP**

**Wideband
attenuators WTS**

**Reverse
attenuators
65 MHz–WTK...**

**Reverse
attenuators
15 MHz–WTK85...**

The cylindrical bodies can also be made as bodies with angle connections. In this case, additional FM / FF angle connectors are used at the input. The execution is shown next to it.

All elements manufactured by PTH MATT are subject to multiple control of basic parameters, which, combined with careful assembly, modern technology, and individual tuning ensure that the parameters obtained are consistent with the catalog data. Observing all the implemented Quality Management Procedures ISO 9001: 2008 ensures high quality and repeatability of all products for sale.



Note: PTH MATT also makes other passive components to order (depending on requirements and structural possibilities) - in various available housings.

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