

Microwave Filter and Thermalizer

Typical room temperature transmission characteristics:

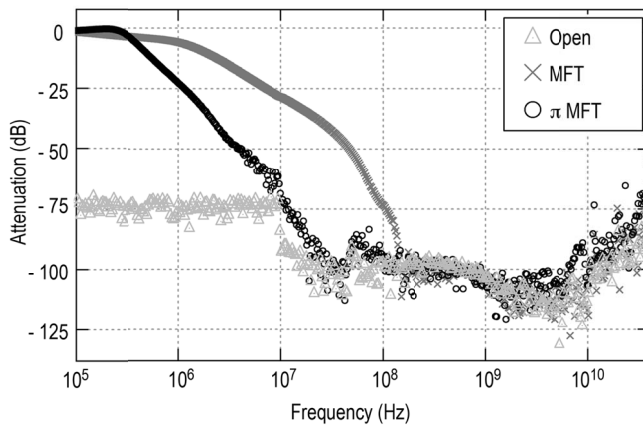
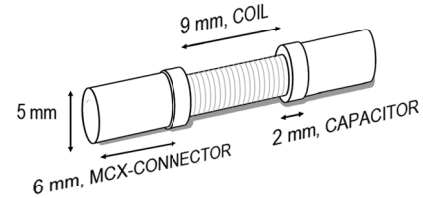


Figure adapted from Appl. Phys. Lett. 104, 211106 (2014)

π MFT schematics and dimensions:

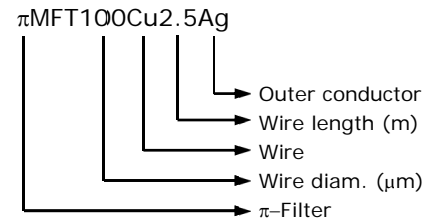


MFT picture:



Technical Data:

	MFT100Cu2.5Ag	π MFT100Cu2.5Ag
DC-Resistance RT	$\approx 5 \Omega$	$\approx 5 \Omega$
DC-Resistance ($T=4.2 \text{ K}$)	$\approx 40 \text{ m}\Omega$	$\approx 40 \text{ m}\Omega$
Capacitance RT	$\approx 4 \text{ nF}$	$\approx 14 \text{ nF}$
Capacitance ($T=4.2 \text{ K}$)	$\approx 4 \text{ nF}$	$\approx 14 \text{ nF}$
25 dB Atten. typical RT	$\geq 8 \text{ MHz}$	$\geq 1 \text{ MHz}$
100 dB Atten. typical RT	$\geq 150 \text{ MHz}$	$\geq 30 \text{ MHz}$
>75 dB Atten. guarant. RT	$0.2 \text{ GHz} \leq f \leq 10 \text{ GHz}$	$30 \text{ MHz} \leq f \leq 10 \text{ GHz}$
Connector type	MCX	MCX



The attenuation shown is approximate, measured at room temperature (RT). Slight variations occur from filter to filter and upon cool down to 4K or below. Adding a series resistance prior to the MFT may increase the overall attenuation. The MFTs are fragile; handle with care, particularly when plugging-in/unplugging. Over hundred MFTs are in use in our lab so far without any failures after numerous thermal cycles. The MCX connectors used are not magnetic or only very weakly magnetic. We test each filter individually for shorts and opens and can provide an attenuation spectrum up to 10 GHz for each individual filter.

Pricing information:

MFT100Cu2.5Ag 800 EUR
 π MFT100Cu2.5Ag 1'000 EUR VAT 8 % in Switzerland

Two years of warranty. We guarantee MFTs without shorts or opens.

Delivery time: ca. 4 weeks after receipt of PO.

Discount: 15% for 5 to 9 filters, 25% for 10 or more filters

Customized variants may be possible at an extra charge with longer lead time (e.g. other connector or wire type)