

RF CURRENT ABSORBERS

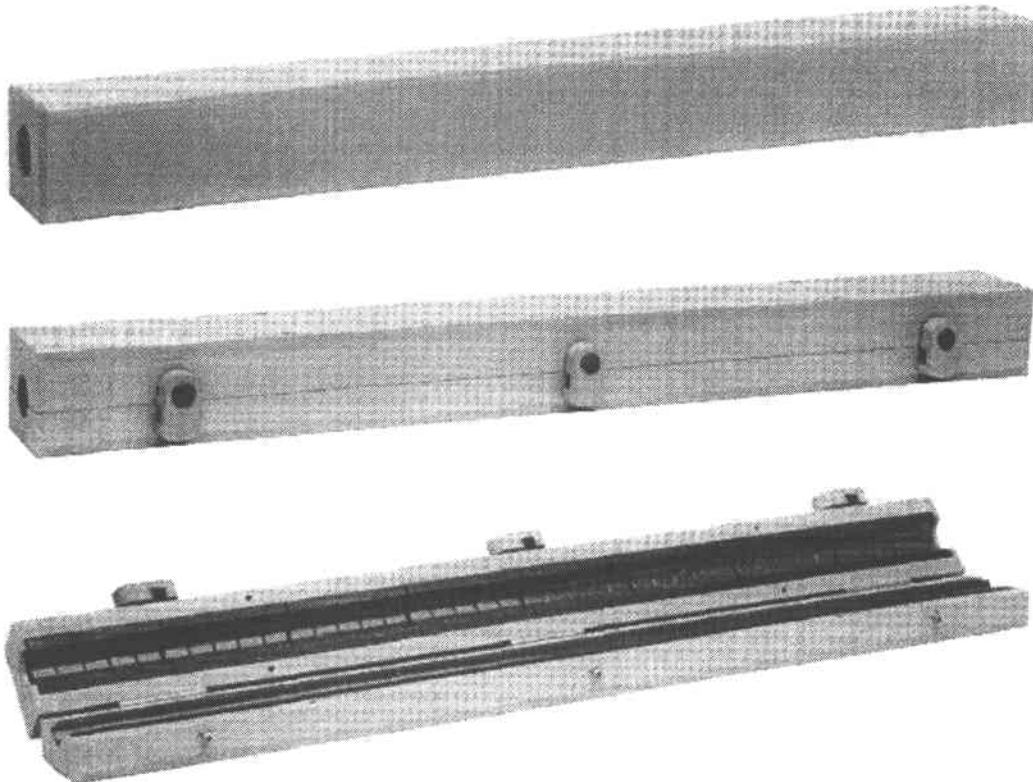
FT

RF CURRENT ABSORBER CLAMPS

FTC

**DECOUPLING CLAMPS
IN ORDER TO IEC 801-6**

FTC 101



When using laboratory test set-ups in the VHF and UHF range, the screenings of usual coaxial cables make a connection between the housings of the measuring components. The thus developing coupling loops, together with induced currents originating in radiated fields, engender indistinct couplings between and within the components. If the housings are earthed the earth loops create especially indefinable conditions. Very often, the surface currents flowing in the screening coats cause incorrect measurements, instabilities and readings not reproducible. A remedy in a wide frequency range are the so-called „linear losses“ i.e. long coatings of the cables with ferrite toroids.

Lüthi Elektronik - Feinmechanik AG CH-4402 Frenkendorf

The surface current absorbers FT and FTC have proved an appropriate solution for practical use in the laboratory.

Of course the FT and FTC can also be used for protecting a test set-up with non screened cables against HF influences.

In a PVC case a great number of ferrite toroids are arranged. Their material is well-chosen and optimal for the particular frequency range. Effective suppression sets in at 1, 10 or 100 MHz respectively and ranges up to 2 GHz.

The types FT are composed of toroids through which the conductors are to be passed. The opening is 23 mm in diameter.

The types FTC come in the form of „clamps“ with the toroids cut into halves and grinded contact surfaces. The conductors are placed into the open clamp and the clamp is locked by excentric fasteners adjustable by means of excentric bolts. Springs press the ferrite halves together.

IEC 801-6: The decoupling clamp FTC 101 has the same construction and Dimensions but is only used together with EM 101.

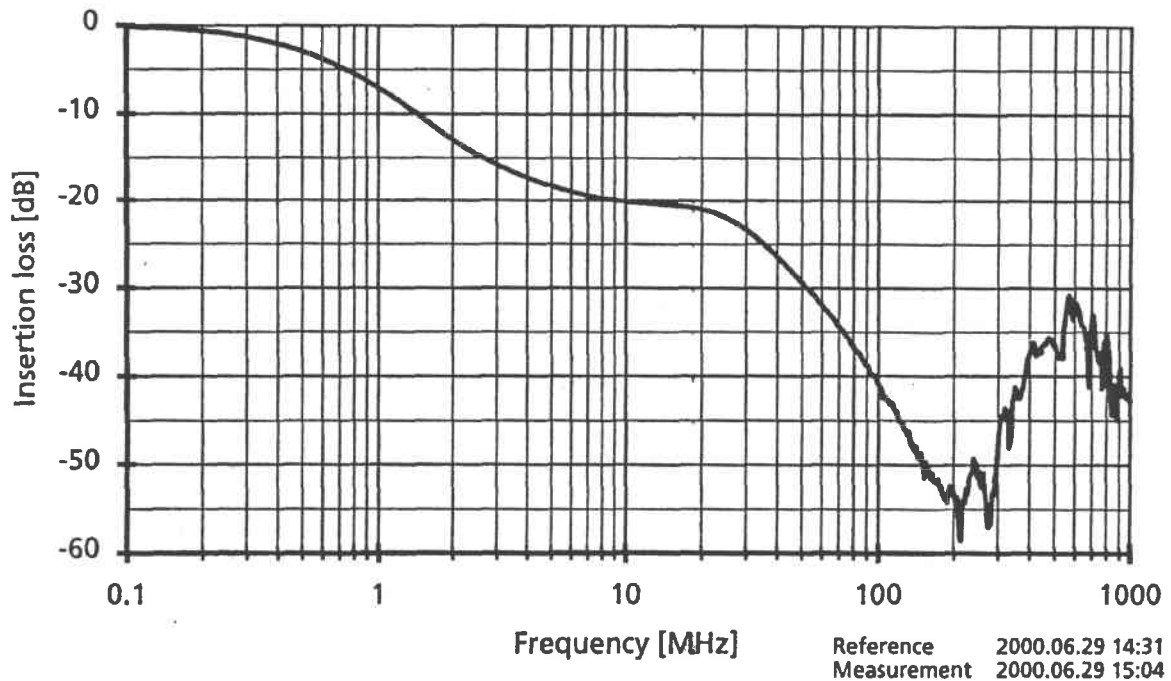
Type	Opening mm	Frequency range MHz	Insertion loss dB	Dimension mm	Weight kg
FT 14X15	23	100 ... 1500	6 ... 30	50x50x215	1,2
FT 33X15	23	10 ... 1000	6 ... 40	50x50x515	2,4
FT 34X15	23	1 ... 1000	10 ... 25	50x50x515	2,4
FTC 40X15 C	22	10 ... 1000	5 ... 50	58x53x615	3,4
FTC 40X15 E	22	1 ... 1000	10 ... 30	58x53x615	3,4
FTC 101	22	to EM 101		58x53x615	3,4
FT 32	32	0,01 ... 1000	> 6 dB loss by 0.5 MHz	70x70x520	6,0



Insertion loss of the ferrite clamp FTC 40X15 E

Einfügungsdämpfung einer Ferritzange FTC 40X15 E

Typical insertion loss in a 50 Ω system
Typische Dämpfung in einem 50 Ω System



Typical insertion loss in a 150 Ω system
Typische Dämpfung in einem 150 Ω System

