

Data Sheet of Coaxial Broadband Surge Protector BrOK[®], Type SPKO-F75-SAT / TV-B / F-F

The SPKO-F75-SAT/TV-B / F-F broadband coaxial overvoltage protection is a T2 overvoltage protection (C-class surge arrester). **It is designed to protect coaxial leads from TV antennas or SAT converters** and their connected inputs SAT or TV receivers. **The protection protects the inputs of the receivers** even in the case of a direct lightning strike into the lightning protection system of the protected object **according to the wording of IEC 61312-1.**

The precondition for proper operation of each surge protection is **its precise electrical connection to the equipotential busbar EP (HOP)** of the object (eg via the sub-busbar EP or PE protective conductor of the LV distribution) **with the shortest cable made of a stranded conductor of 2.5 mm² minimum cross section.**

The protection is connected between coax. lead from TV antenna or SAT converter and protected input of STA or SAT / TV receivers as through cable connector with connectors type F75/F-F.

The design of the protection ensures reliable leakage of parts of lightning current without thermodynamic destruction of the protection and its surroundings. This enables the installation of BrOK[®] coaxial overvoltage protectors even in plastic switchboards.

Manufacturer Part No: **SPKO-F75-SAT/TV-B / F-F**

Catalog number: **spkof75sattvb / ff**

Technical parameters of protection:

The protection is equipped with a surge arrester 20 kA, 8/20 μ s, **10x wave test 2.5 kA, 10/350 μ s.**

Measured in the frequency band:

0.01 – 4,01 GHz

Attenuation/adaptation factor:

$\leq -0,3$ dB/ ≤ -20 dB (see fig. 3)

I_{ZRP} test surge current:

2,5 kA, 10/350 μ s

Residual overvoltage **u (t)** after protection et **I_{ZRP}**:

$\leq \pm 100$ Všš pro t ≥ 80 ns (see fig. 2)

How to connect the protection to the signal path:

-as through cable connector with F/F-F connectors

-to the equipotential busbar **EP (HOP) of the object** by means of a stranded wire **with a minimum cross-section of 2.5 mm²** with a pressed-in cable lug and an M5 screw.

Maximum dimensions: length **55 mm**, diameter **37 mm**

Mounting position: **any**

Weight: **50 g**

Protection class: **IP 20**

Fig. 1



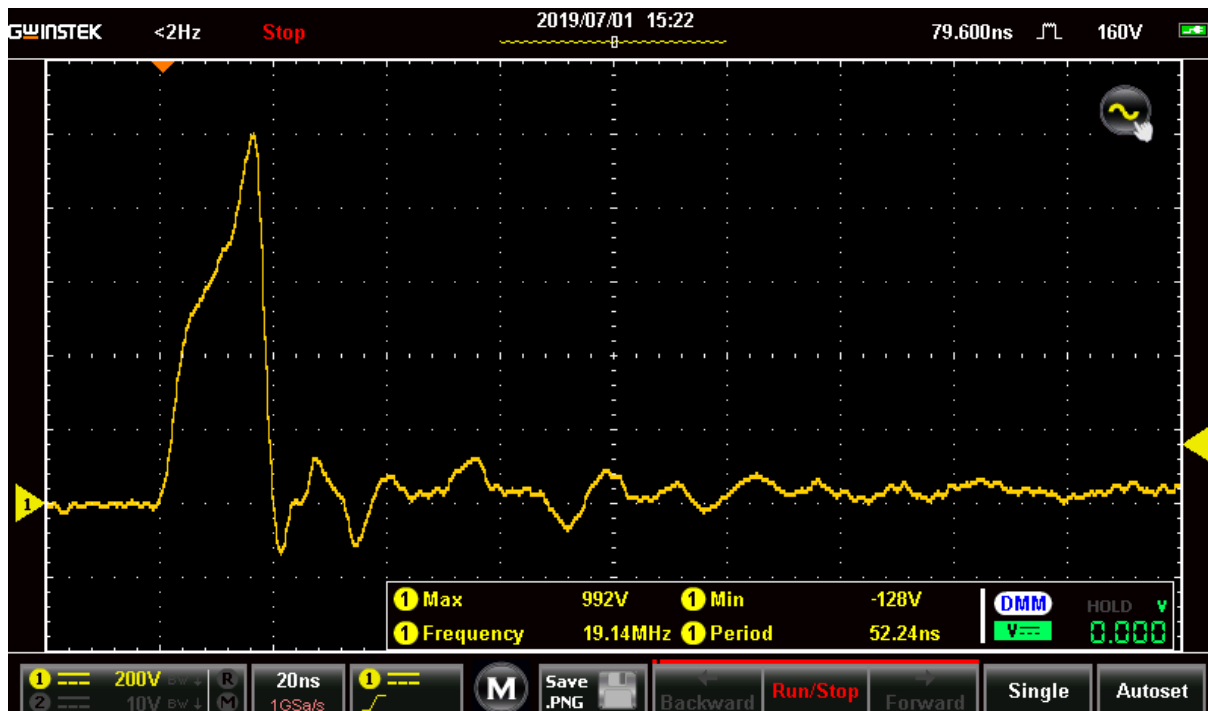


Fig. 2 Oscilogram of residual overvoltage $u(t)$ after SPKO-F75-SAT/TV-B / F-F protection in the 2.5 kA shock wave test, 10/350 μ s

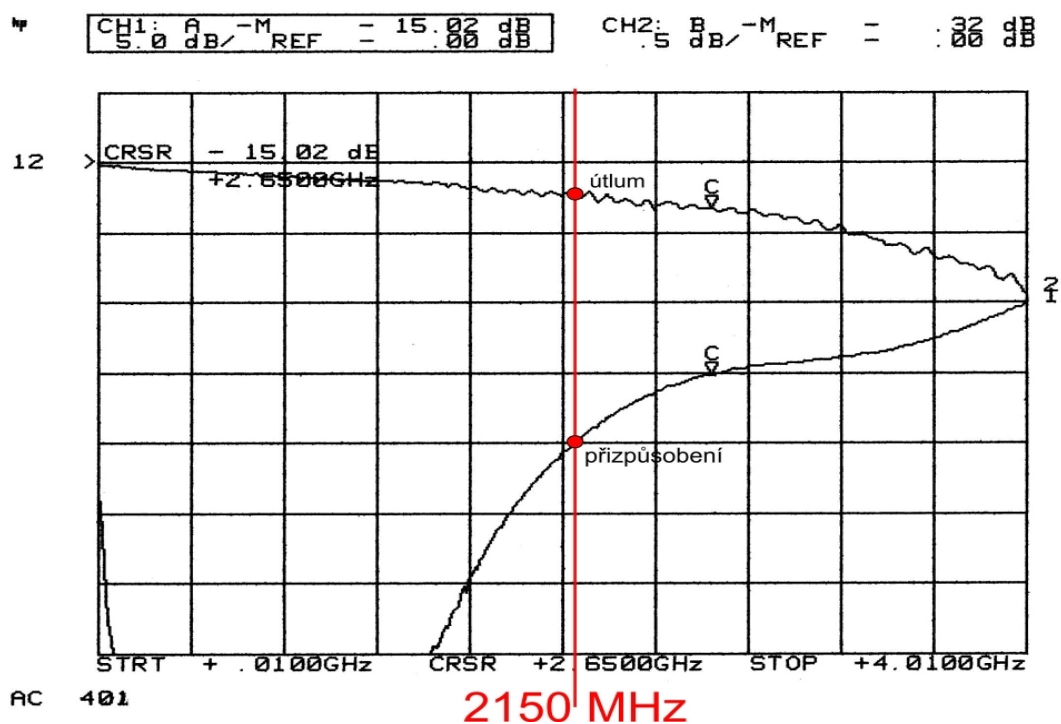


Fig. 3 Graph of attenuation coefficients and adaptation of coaxial overvoltage protection SPKO-F75-SAT/TV-B / F-F measured in the frequency range 0.01-4.01 GHz.

Setting the measuring parameters of the circuit analyzer:

Attenuation: 0.5 dB / div (curve 2)

Adaptation: 5 dB / div (curve 1)

At 2150 MHz (read from graph): attenuation factor: -0.22 dB

adjustment factor: -20 dB

Important notice for users:

For overvoltage protections fitted with a gas surge arrester, it is recommended to periodically check the functionality of the protection at intervals of 1 / year. Measurement is performed by our service for free, we charge only postage on return checked by KPO post. If gas lightning arresters are not functioning properly, we inform the customer and replace them on request (for a fee of 45 CZK / pc without VAT).

Surge protectors BrOK[®] - quality at reasonable prices

The warranty period is 24 months from the date of sale. In the event of a dispute, the guarantee of the claimed surge protection is subject to the condition that the installation conditions are checked by the manufacturer's service technician and that the nameplate is undamaged. For the duration of the complaint procedure, we can lend the customer functional surge protection of the same type.

Technical consulting is provided and serviced by the company:

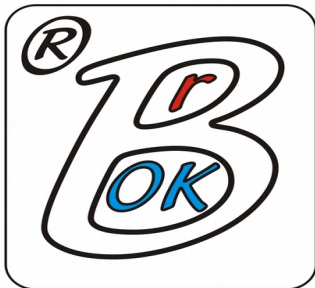
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Recommended retail price without 21% VAT: see **Price list**
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