

Coaxial phase shifters

Description and purpose

FK20-03R-03-110 coaxial phase shifter is designed to trim and adjust electrical length of transmission line in radioelectronic communication systems where high accuracy of phase value is required. Coaxial phase shifter provides variation of communication line electrical length with a small increment, maintaining VSWR and insertion loss level. The coaxial phase shifters operate at frequencies between 0 and 20 GHz at temperatures between -60 °C and +110 °C. Their bodies and nuts are made of stainless steel. Their central conductors are made of tempered beryllium bronze plated with wear-proof gold, which provides at least 3000 connect/disconnect cycles.



Specifications

Model	Connectors	Frequency range, GHz	VSWR max. (typ.)	Insertion loss, dB, max. (typ.)	Maximum phase shift at 20 GHz, °	Fig.
FK20-03R-03-110	Type IX, ver. 3 (female) – type IX, ver. 3 (male)	0 ... 20	1.25	0.3	110	1
FK20-13R-13-110	3.5 mm (female) – 3.5 mm (male)					

Dimensions

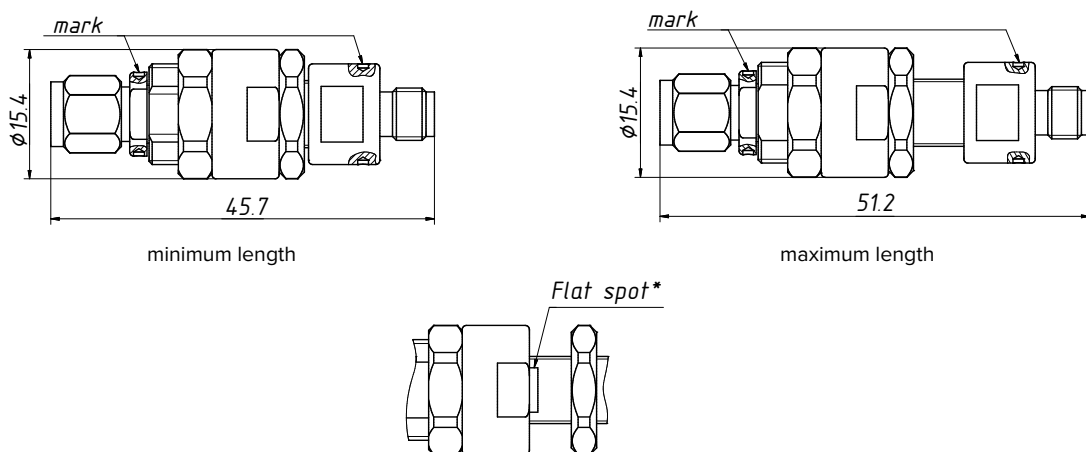


Fig. 1

* Flattened surface on the body is a mark showing the limit for unscrewing the body to avoid the phase shifter failure.