

3.5mm Precision Fixed Offset Shorts

Model Series 8046 (female) and 8047 (male)

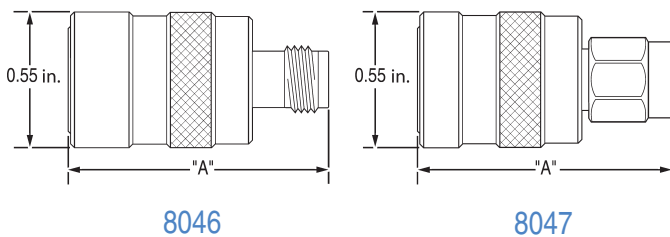
Description

These shorts mate with the 3.5mm test port connectors on various VNAs, including the Agilent PNA series. The "F" models are reference shorts and are sold as part of Maury's 8050 and 8060 series VNA calibration kits; the other models are offset relative to the 8046F and 8047F, and are sold separately as supplemental parts for those VNA calibration kits.

Specifications

Frequency Range DC to 34.0 GHz
 Minimum Reflection Coefficient 0.98
 Nominal Impedance 50 ohm
 Phase Accuracy ± 2.0°

Reference Dimensions



8046A



8047A



Available Models

MODEL	SEX	"A" DIMENSION		OFFSET LENGTH		1/4- λ FREQ (GHz)
		INCHES	(CM)	INCHES	(CM)	
8046A	female	1.856	(4.7142)	1.1803	(2.9980)	3.0
8046B	female	1.364	(3.4646)	0.6885	(1.7488)	6.0
8046C	female	1.162	(2.9515)	0.4862	(1.2349)	10.2
8046D	female	1.080	(2.7432)	0.4040	(1.0262)	14.24
8046E	female	1.005	(2.5527)	0.3295	(0.8369)	22.24
8046F ¹	female	0.873	(2.2174)	0.1970 ¹	(0.5004)	REF
8047A	male	1.897	(4.8184)	1.1803	(2.9980)	3.0
8047B	male	1.405	(3.5687)	0.6885	(1.7488)	6.0
8047C	male	1.203	(3.0556)	0.4862	(1.2349)	10.2
8047D	male	1.121	(2.8473)	0.4040	(1.0262)	14.24
8047E	male	1.046	(2.6568)	0.3295	(0.8369)	22.24
8047F ¹	male	0.914	(2.3216)	0.1970 ¹	(0.5004)	REF

¹ Reference shorts and reference offset lengths for these two model series. The relative offset length of other models in each series is derived by subtracting their offset lengths (shown in this table) from the offset length of their appropriate reference short (i.e., 8046F or 8047F).

3.5mm/SMA Reference Fixed Flush Shorts

Models 360D (female) and 360B (male)

Description

These true coplanar, reference plane shorts mate with the 3.5mm, SMA and 2.92mm (K) test port connectors on various VNAs, including the Agilent PNA series. The 360D has a return loss of less than 0.2 dB with a phase offset of less than 2 degrees. The 360D and 360B are sold as supplemental parts for use with Maury's 8050 and 8060 series VNA calibration kits.

Specifications

Frequency Range DC to 26.5 GHz (useable to 40 GHz)
 Minimum Reflection Coefficient 0.99
 Nominal Impedance 50 ohm
 Phase Accuracy ± 2.0°

Available Models

MODEL	SEX	"A" DIMENSION	
		INCHES	(CM)
360D	female	0	(0)
360B	male	0	(0)

360D



360B



Reference Dimensions

