

Directional Coaxial Couplers

- ◆ **Broadband coverage**
- ◆ **Low insertion loss**



DESCRIPTION

Directional couplers are used in a broadband network analyzer for measurements of DUT S-parameters. They provide precision measurements thanks to high directivity in a wide frequency range and low loss.

The couplers have small dimensions and various input/output coaxial connectors: N, 3.5 mm; 2.4 mm or

III, IX, I types in accordance with ГOCT 13317-89.

OPERATING CONDITIONS

Operating temperature range: 5...40 °C
Relative humidity: 98%

SPECIFICATIONS

Model	Frequency range, GHz	Coupling, dB	Coupling frequency sensitivity, dB	Directivity, dB	Main line VSWR	Connector type			Dimensions, mm	Weight, kg
						1	2	3		
2.243.930	1.07-4.0	20±1	+6(1-2 GHz) ±1(2-4 GHz)	37	1.15	N(f)	N(f)	N(f)	17x56x146	0.9
2.243.930-01						N(f)	N(m)	N(f)	17x56x153	
2.243.933	4.0-12.4	20±1	+4(4-7 GHz) ±1(7-12.4 GHz)	32	1.25	N(f)	N(f)	N(f)	17x50x174	0.6
2.243.933-01						N(f)	N(m)	N(f)	17x50x181	
2.243.939	1.07-7.2	20±1	±2	33	1.25	N(f)	N(f)	N(f)	17x56x161	1.0
2.261.069	2-18	13±1	+7(2-3.5 GHz) ±3(3.5-18 GHz)	24	1.35	N(f)	N(m)	N(f)	24.5x59.5x133	0.23
2.261.069-01				26-28		N(f)	N(f)	N(f)	24.5x59.5x134	0.23
2.261.069-02				26-28		N(m)	N(f)	N(f)	24.5x59.5x133	0.23
2.261.069-03				24		3.5(f)	3.5(m)	N(f)	24.5x59.5x96.7	0.21
2.261.069-04				26-28		3.5(m)	3.5(f)	N(f)	24.5x59.5x96.7	0.21
2.261.069-05				26-28		3.5(f)	3.5(f)	N(f)	24.5x59.5x93.6	0.21
2.261.069-06				24		N(f)	3.5(m)	N(f)	24.5x59.5x116.9	0.23
2.261.084	18-25.86	20±1	±2,5	26-28	1.5	3.5(f)	3.5(f)	3.5(f)	22x40x96	0.2
2.261.084-01				24		3.5(f)	3.5(m)	3.5(f)		
2.261.085	25.86-36	20±1	±2.5	26-28	1.6	3.5(f)	3.5(f)	3.5(f)	22x35x90	0.2
2.261.085-01				24		3.5(f)	3.5(m)	3.5(f)		
468.515.002	25.86-37.5	20±1	±3	25-27	1.6	2.4(f)	2.4(f)	2.4(f)	24x35x91	0.2
468.515.002-02				23		2.4(f)	2.4(m)	2.4(f)		
468.515.003				25-27		2.4(f)	2.4(f)	2.4(f)		
468.515.003-01				25-27		2.4(m)	2.4(f)	2.4(f)		
468.515.003-02				23		2.4(f)	2.4(m)	2.4(f)		
5037	0.045-26.5	16±1	±2.5(2-26.5)	24	1.5	3.5(f)	3.5(f)	3.5(f)	40x50x90	0.35
5027	0.045-40	16±1	+6 per octave (0.045-2 GHz) ±2.5(2-40 GHz) +6 per octave (0.045-2 GHz)	(0.045-20 GHz)	(0.045-20 GHz)	2.4(f)	2.4(f)	2.4(f)	30x45x135	0.5
				20	1.6					
				(20-26,5 GHz)	(20-26,5 GHz)					
				24	1.5					
				(0.045-20 GHz)	(0.045-20 GHz)					
				20	1.65					
				(20-40 GHz)	(20-40 GHz)					

Note. It is possible to manufacture directional couplers with III and IX type connectors (in accordance with

ГOCT 13317-89) instead of connectors of N and 3.5 mm type accordingly.