

3.5 mm and 7 mm Wideband Fixed Attenuators

◆ **Low VSWR (254, 1016 series)**

◆ **Small size and weight**



DESCRIPTION

Provide a precision attenuation of a microwave signal in 3.5 mm (142, 1016 series) and 7 mm (148, 254 series) coaxial channels.

They are used for wideband matching and isolation of microwave units of a radiomeasuring equipment.

OPERATING CONDITIONS

Operating temperature range: 5...40 °C

Relative humidity: 98%

SPECIFICATIONS

3.5 mm CHANNEL, SMA CONNECTORS

Model	Frequency range, GHz	Attenuation, dB	Attenuation accuracy, dB	VSWR	Input power, W	Connectors	Dimensions, mm	Weight, kg
142-3	0-18	3	±0.7* +1.4**	1.3 (0-4 GHz)	1	SMA(m,f)	∅ 13x32.6	0.04
6	0-18	6	+0.7* ±1.4**	1.4 (4-8 GHz)	1	SMA(m,f)	∅ 13x34.2	0.05
10	0-18	10	+0.8* ±1.4**	1.7 (8-18 GHz)	1	SMA(m,f)	∅ 13x34.2	0.05
20	0-18	20	±0.8* ±1.4**		1	SMA(m,f)	∅ 13x34.2	0.05
1016-3	0-26.5	3	+0.8 -0.2	1.1 (0-4 GHz)	2	3.5(m,f)	∅ 13x31	0.04
6	0-26.5	6	+0.7 -0.2	1.35 (4-18 GHz)	1.25	3.5(m,f)	∅ 13x31	0.04
10	0-26.5	10	±0.7	1.5 (18-26.5 GHz)	1	3.5(m,f)	∅ 13x31	0.04
20	0-26.5	20	±1.0		1	3.5(m,f)	∅ 13x31	0.04
30	0-26.5	30	±1.5		1	3.5(m,f)	∅ 13x31	0.04

* Attenuation accuracy in 0-8.15 GHz frequency range

** Attenuation accuracy in 8.15-18 GHz frequency range

7 mm CHANNEL, N CONNECTORS

Model	Frequency range, GHz	Attenuation, dB	Attenuation accuracy, dB	VSWR	Input power, W	Dimensions, mm	Weight, kg
254-0	0-6	1	±0.2* ±0.4**		2	22x22x47.6	0.07
01	0-6	2	±0.2* ±0.4**		2	22x22x47.6	0.07
02	0-6	3	±0.2* ±0.4**		1.5	22x22x47.6	0.07
03	0-6	4	±0.2* ±0.4**		1.8	22x22x47.6	0.07
04	0-6	5	±0.2* ±0.4**	1.08(0-1GHz)	1	22x22x51.6	0.08
05	0-6	6	±0.2* ±0.4**	1.1(1-3 GHz)	1	22x22x51.6	0.08
06	0-6	8	±0.2* ±0.4**	1.2(3-6 GHz)	1	22x22x51.6	0.08
07	0-6	10	±0.2* ±0.4**		1	22x22x51.6	0.08
08	0-6	15	±0.2* ±0.4**		1	22x22x51.6	0.08
09	0-6	20	±0.2* ±0.4**		1	22x22x51.6	0.08
10	0-6	30	±0.2* ±0.4**		1	22x22x54.1	0.085
11	0-6	40	±0.25* ±0.4**		1	22x22x56.8	0.085

* Attenuation accuracy in 0-3 GHz frequency range

** Attenuation accuracy in 3-6 GHz frequency range

7/3.04 mm CHANNEL, N OR III TYPE CONNECTORS

Model	Frequency range, GHz	Attenuation, dB	Attenuation accuracy, dB	VSWR	Input power, W	Dimensions, mm	Weight, kg
148-3	0-18	3	±1.4 -0.4	1.6	1	∅ 24x69.8	0.16
6	0-18	6	±0.7		1	∅ 24x73.8	0.16
10	0-18	10	±1.0		1	∅ 24x73.8	0.16
20	0-18	20	±1.0		1	∅ 24x73.8	0.16
30	0-18	30	±1.5		1	∅ 24x76.3	0.16

Note: It is possible to manufacture attenuators (142; 1016; 254; 148 series) with III and IX type con-

nectors (in accordance with ГОСТ 13317-89) instead of N and SMA (3.5 mm) type connectors accordingly.