

Широкополосные СВЧ нагрузки для сетей сотовой связи



Официальный поставщик «Spinner-Group»

<http://www.tt-telecom.ru>

Отдел продаж: market@tt-telecom.ru

КАТАЛОГ

Содержание

- Нагрузки с низким уровнем пассивной интермодуляции 350 - 3800 МГц
- Стандартные нагрузки – модульная конструкция 0 – 7000 МГц

Absorbing Products <http://www.tt-telecom.ru> Отдел продаж: market@tt-telecom.ru

SPINNER loads and attenuators are often used in the installation and calibration of mobile radio communication stations, but also in measurement technology applications in which they excel thanks to their excellent IM properties.



Low PIM loads



Low PIM attenuators



Loads



Attenuators

Loads and Attenuators – Now Even More Flexible

Both for the loads and for the attenuators, SPINNER has developed a new modular system by means of which you are significantly more flexible in choosing your components. The requirements for performance and the connector system are diverse and the new system enables you to easily combine loads and attenuators with the performance and connector system specified by you. Thus, you are able to combine your components freely to meet your requirements and do not have to use oversized components or adapters without the support of which you could not even install the components. The advantages are obvious: cost savings and improved technical values.

The new modular system is available for the 25 W, 50 W, 100 W and 200 W performance versions as well as for 7-16, 4.3-10 and N connector system. Of course, you will be able to choose from connectors and couplers of the connector systems mentioned above. The standard version is available between 0 and 4 GHz. Extended versions are possible up to 6 GHz. Moreover, you can order your versions with an integrated DC block as well as with a measurement report.



Standard Loads

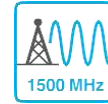


Standard Attenuators

Loads

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Low Intermodulation Loads

Part Number	BN 534279	BN 534280	BN 534277
Frequency range	350 – 3800 MHz		
Passive intermodulation (IM3) @ 2 x 20 W	≤ -140 dBc; typ. ≤ -145dBc @ 350 - 694 MHz ≤ -150 dBc; typ. ≤ -155dBc @ 694 - 870 MHz ≤ -160 dBc; typ. ≤ -165dBc @ 870 - 3000 MHz		
VSWR	≤ 1.15; typ. ≤1.08 @ 350 - 3000 MHz ≤ 1.20; typ. ≤1.15 @ 3000 - 3800 MHz		
Power dissipation	≤ 50 W	≤ 100 W	≤ 150 W
Connectors	7-16 female		
Temperature range	-40° C ... +50° C		
Degree of protection (mated)	IP 20		
Weight	~ 2.0 kg	~ 2.8 kg	~ 4.1 kg
Mounting brackets	BN B20962 or BN B20963 (see data sheet)		



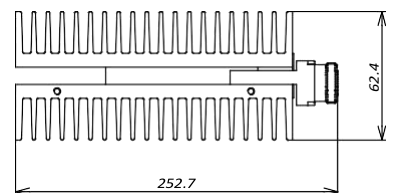
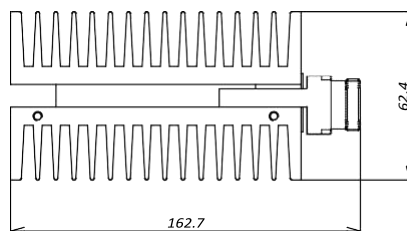
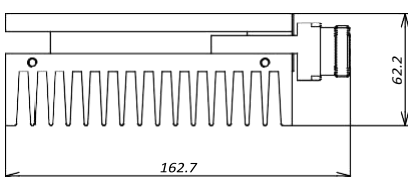
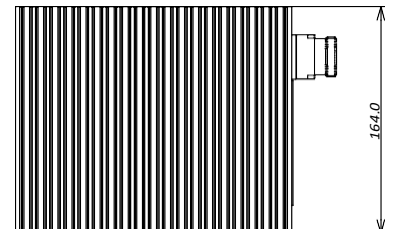
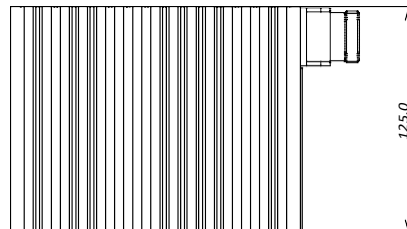
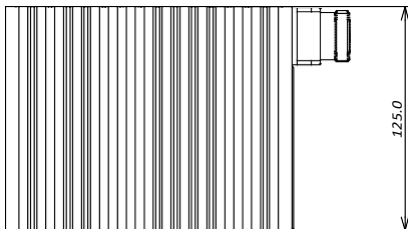
BN 534279



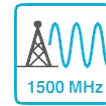
BN 534280



BN 534277



Loads <http://www.tt-telecom.ru> Отдел продаж: market@tt-telecom.ru

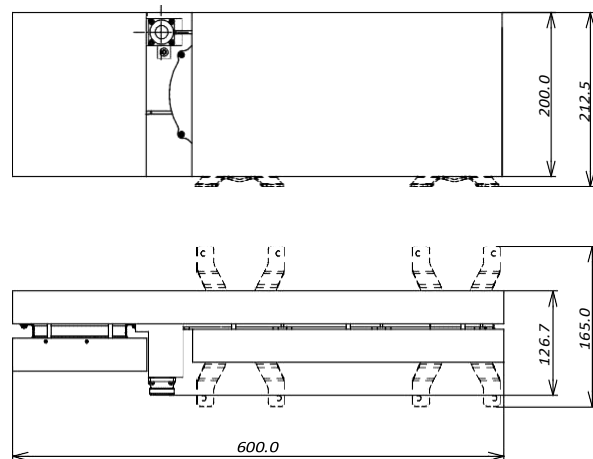


Low Intermodulation Loads

Part Number	BN 534276
Frequency range	380 –4000 MHz
Passive intermodulation (IM3) @ 2 x 20 W	≤ -160 dBc @ 380 - 2700 MHz
VSWR	≤ 1.25 @ 380 – 694MHz ≤ 1.15 @ 694 – 4000MHz
Power dissipation	≤ 250 W @ 380 - 694 MHz ≤ 400 W @ 694 - 2700 MHz ≤ 250 W @ 2700 - 4000 MHz
Connectors	7-16 female
Temperature range	-5° C ... +55° C
Degree of protection (mated)	IP 20
Weight	~ 14.5 kg
Mounting brackets	BN B20641



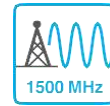
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Loads

<http://www.tt-telecom.ru>

Отдел продаж: market@tt-telecom.ru

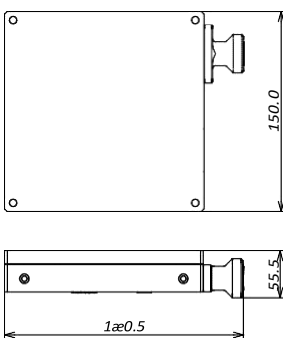


Low Intermodulation Loads

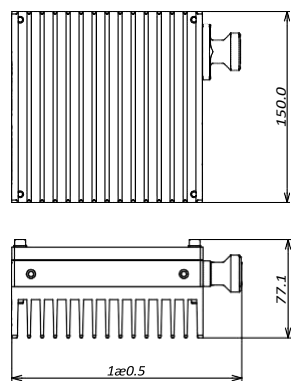
Part Number	BN 594272	BN 594273	BN 594274	BN 594275
Frequency range	350 – 3800 MHz			
Passive intermodulation (IM3) @ 2 x 20 W	≤ -140 dBc; typ. ≤ -145dBc @ 350 - 694 MHz ≤ -150 dBc; typ. ≤ -155dBc @ 694 - 800 MHz ≤ -160 dBc; typ. ≤ -165dBc @ 800 - 3000 MHz			
VSWR	≤ 1.15; typ. ≤ 1.08 @ 350 – 3000MHz ≤ 1.20; typ. ≤ 1.15 @ 3000 – 3800MHz			
Power dissipation	≤ 20 W	≤ 50 W	≤ 100 W	≤ 150 W
Connectors	7-16 female			
Temperature range	-40° C ... +50° C			
Degree of protection (mated)	IP 68			
Weight	~ 1.2 kg	~ 2.5 kg	~ 3.5 kg	~ 5.3 kg
Mounting brackets	BN B20962 or BN B20963 (see data sheet)			



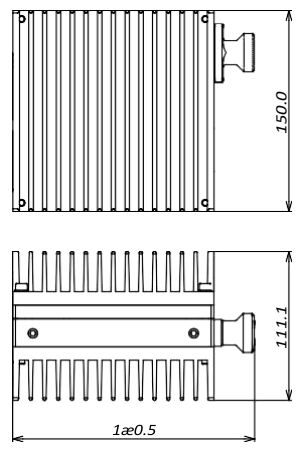
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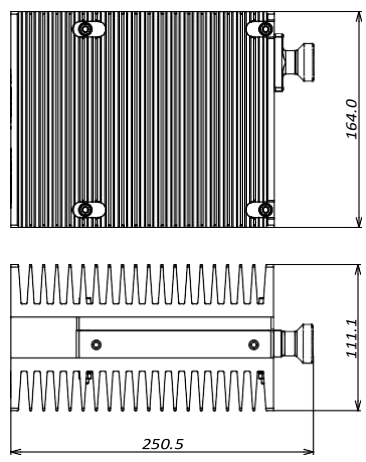
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BN 594274



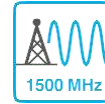
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Loads

<http://www.tt-telecom.ru>

Отдел продаж: market@tt-telecom.ru

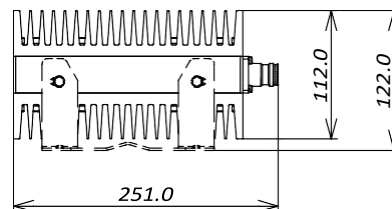
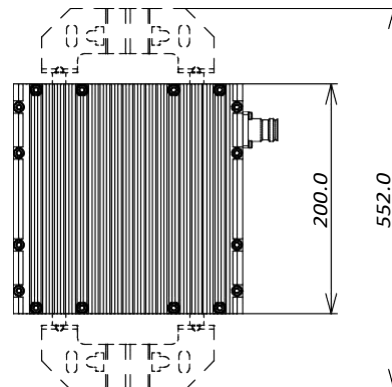


Low Intermodulation Loads

Part Number	BN 594276	BN 594278
Frequency range	350 – 3800 MHz	
Passive intermodulation (IM3) @ 2 x 20 W	≤ -160 dBc; typ. ≤ -165dBc @ 350 - 3000 MHz	
VSWR	≤ 1.20; typ ≤ 1.15 @ 350 – 694 MHz ≤ 1.15; typ ≤ 1.10 @ 694 – 3800MHz	
Power dissipation	≤ 200 W	
Connectors	7-16 female	4.3-10 female
Temperature range	-40° C ... +40° C	
Degree of protection (mated)	IP 68	
Weight	~ 8.2 kg	
Mounting brackets	BN B20962	



BN 594278



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Low Intermodulation Loads

Part Number	BN 594282	BN 594283	BN 594284	BN 594285
Frequency range	350 – 3800 MHz			
Passive intermodulation (IM3) @ 2 x 20 W	≤ - 140 dBc; typ. ≤ -145dBc @ 350 - 694 MHz ≤ - 150 dBc; typ. ≤ -155dBc @ 694 - 800 MHz ≤ - 160 dBc; typ. ≤ -165dBc @ 800 - 3000 MHz			
VSWR	≤ 1.15; typ ≤ 1.08 @ 350 – 3000MHz ≤ 1.20; typ ≤ 1.15 @ 3000 – 3800MHz			
Power dissipation	≤ 20 W	≤ 50 W	≤ 100 W	≤ 150 W
Connectors	4.3-10 female			
Temperature range	-40° C ... +50° C			
Degree of protection (mated)	IP 68			
Weight	~ 1.2 kg	~ 2.5 kg	~ 3.5 kg	~ 5.3 kg
Mounting brackets	BN B20962 or BN B20963			



BN 594282



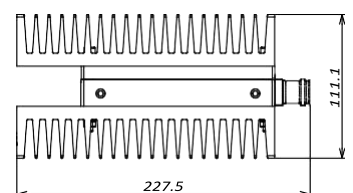
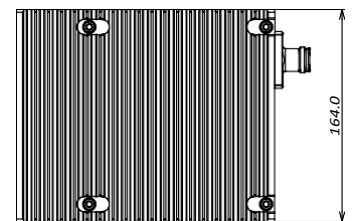
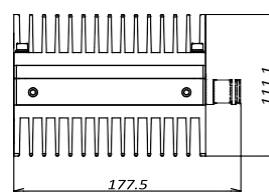
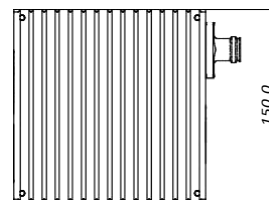
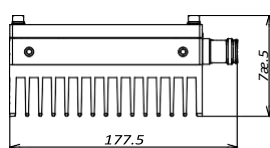
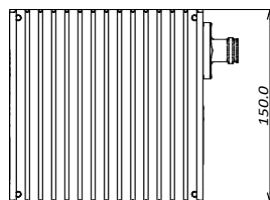
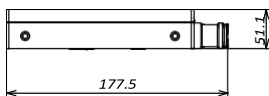
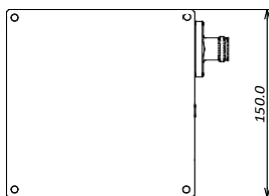
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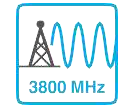
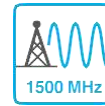
BN 594284



BN 594285



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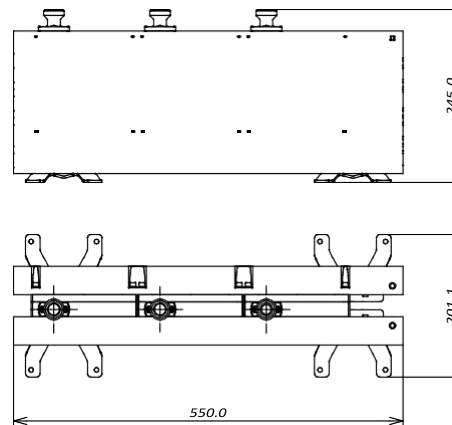


Low Intermodulation Loads

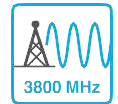
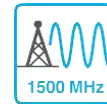
Part Number	BN 534268
Frequency range	350 – 3800 MHz
Passive intermodulation (IM3) @ 2 x 20 W	≤ -140 dBc; typ. ≤ -145 dBc @ 350 - 694 MHz ≤ -150 dBc; typ. ≤ -155 dBc @ 694 - 800 MHz ≤ -160 dBc; typ. ≤ -165 dBc @ 800 - 3000 MHz
VSWR	≤ 1.15 @ 350 – 3000 MHz ≤ 1.20 @ 3000 – 3800 MHz
Power dissipation	≤ 450 W (≤ 150 W per port)
Connectors	7-16 female
Temperature range	-40° C ... +30° C
Degree of protection (mated)	IP 68
Weight	~ 18 kg
Mounting brackets	Included



BN 534268



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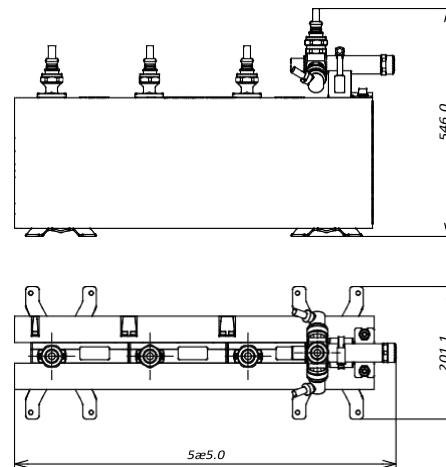


Low Intermodulation Loads

Part Number	BN 534267
Frequency range	694 – 3800 MHz
Passive intermodulation (IM3) @ 2 x 20 W	≤ -155 dBc; typ. ≤ -160 dBc @ 694 - 800 MHz ≤ -160 dBc; typ. ≤ -165 dBc @ 800 - 3000 MHz
VSWR	≤ 1.15 @ 694 – 2700 MHz ≤ 1.25 @ 2700 – 3800 MHz
Power dissipation	≤ 400 W
Connectors	7-16 female
Temperature range	-40° C ... +30° C
Degree of protection (mated)	IP 67
Weight	~ 19 kg
Mounting brackets	Included



BN 534267

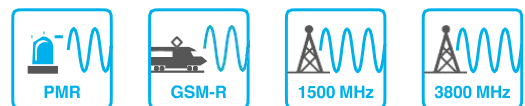
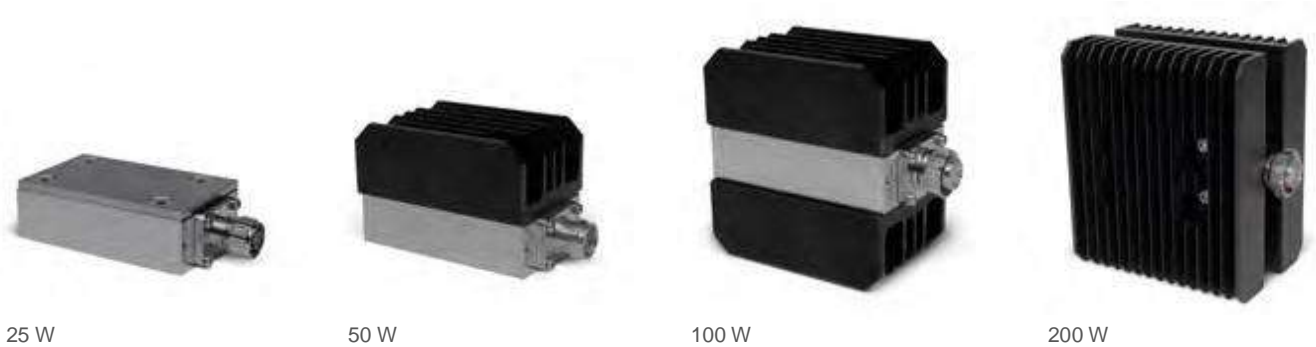


Loads

Standard Loads - Modular Construction System for 25 to 200 W Loads

The standard loads are foreseen for individual configuration. Four power levels from 25 W to 200 W are available. The connectors can be chosen from 7-16, 4.3-10 and N, either male or female. 4.3-10 male versions are available with screw, hand screw and push-pull version.

As special features, the loads can be ordered with an extended frequency range up to 6 GHz and with measurement protocol included in the delivery. The individual configuration can be chosen by the sales article number shown on page 161.



Power dissipation	25 W	50 W	100 W	200 W
Frequency range	0 - 4000 MHz (special feature up to 6000 MHz)			
VSWR	≤ 1.06 @ 0 - 1000 MHz ≤ 1.14 @ 1000 - 2000 MHz ≤ 1.20 @ 2000 - 3000 MHz ≤ 1.30 @ 3000 - 4000 MHz (≤ 1.40 @ 4000 - 6000 MHz)			
Temperature range	-40 °C ... +40 °C			
Degree of protection (mated)	IP 50			
Weight	~ 0.6 kg	~ 0.9 kg	~ 1.1 kg	~ 2.7 kg

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Standard Loads - Sales Article Numbers

Please use sales article numbers for inquiries and orders.

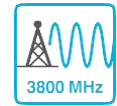
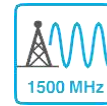
These are self explaining and enable you to specify a product without knowing its part number.

Load	Power		Connector		Extra Feature
L	X	-	Z		-X
25 W	25				Leave blank if N/A
50 W	50				
100 W	100				
200 W	200				
7-16 male			7M		
7-16 female			7F		
4.3-10 male; screw			43MS		
4.3-10 male; hand screw			43MH		
4.3-10 male; push-pull			43MP		
4.3-10 female			43F		
N male			NM		
N female			NF		
Measurement protocol (acc. to EN 10204, incl. VSWR gradient)					P
Extended frequency range					E
Extended frequency range + measurement protocol					EP

Example of sales article numbers:

L25-43MH: Load 25 W with 4.3-10 male hand screw type connector.

Loads <http://www.tt-telecom.ru> Отдел продаж: market@tt-telecom.ru



Standard Loads

Part Number	BN 531702	BN 531712	BN 531726	BN 531727	BN 531225	BN 531227	BN 531221
Frequency range	0 - 4000 MHz	0 - 7000 MHz					
VSWR	≤ 1.06 @ 0 - 1000 MHz ≤ 1.11 @ 1000 - 2000 MHz ≤ 1.17 @ 2000 - 5000 MHz ≤ 1.22 @ 5000 - 7000 MHz						
Power dissipation	≤ 2 W	≤ 5 W			≤ 10 W		
Connectors	4.3-10 male screw type	7-16 male	4.3-10 male screw type	N male	7-16 male	4.3-10 male screw type	N male
Temperatur range	-40 °C ... +40 °C						
Degree of protection (mated)	IP 68	IP 64	IP 68	IP 64		IP 68	IP 64
Weight	~ 55 g	~ 100 g	~ 55 g	~ 40 g	~ 120 g	~ 85 g	~ 80 g



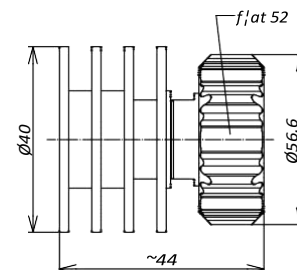
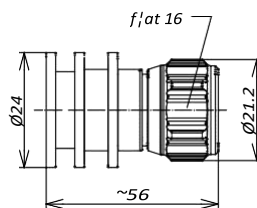
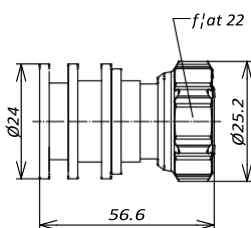
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BN 531727

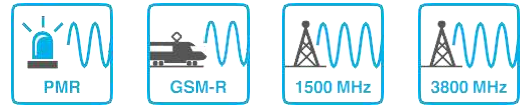


BN 531225



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Loads



Standard Loads

Part Number	BN 547720	BN 527757	BN 527755	BN 527751
Frequency range	0 – 4000 MHz	0 - 7000 MHz		
VSWR	≤ 1.07 @ 0 – 1000 MHz ≤ 1.10 @ 1000 – 2000 MHz ≤ 1.15 @ 2000 – 3000 MHz ≤ 1.20 @ 3000 – 4000 MHz	≤ 1.06 @ 0 – 1000 MHz ≤ 1.11 @ 1000 – 2000 MHz ≤ 1.17 @ 2000 – 5000 MHz ≤ 1.22 @ 5000 – 7000 MHz		
Power dissipation	≤ 25 W			
Connectors	7-16 male		4.3-10 male	N male
Temperature range	-40 °C ... +40 °C			
Degree of protection (mated)	IP 65	IP 40	IP 68	IP 40
Weight	~ 240 g	~ 200 g	~ 130 g	~ 120 g



BN 547720



BN 527755



BN 527751

