

High Performance LTE Band Stop Filters

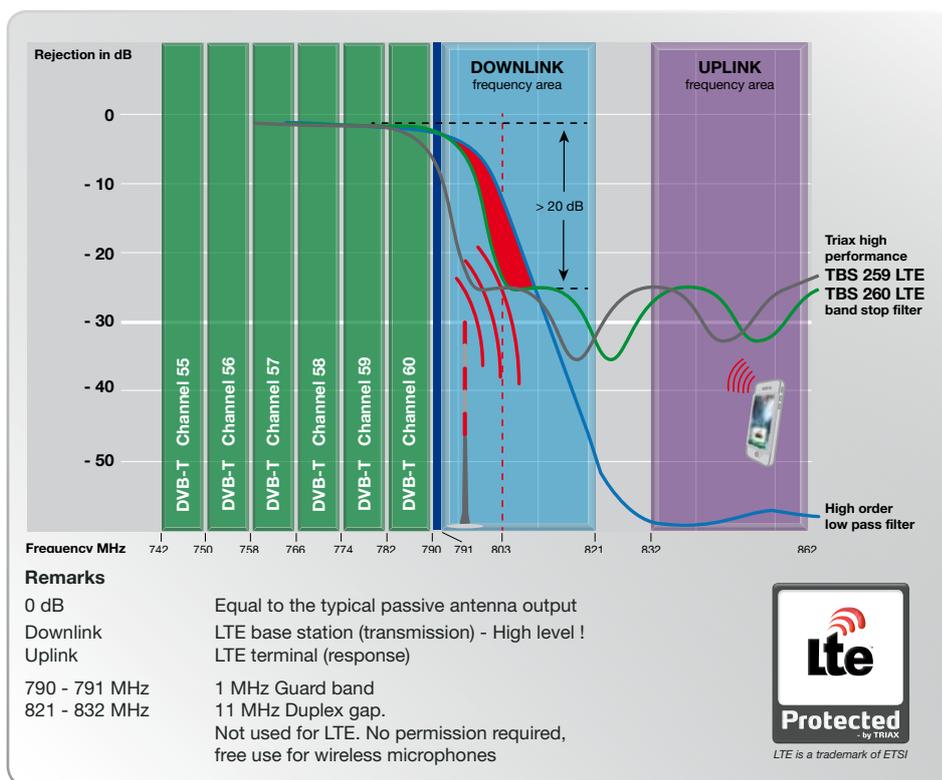
Triax high performance range of TBS band stop LTE filters protect against interference on DVB-T signals and protect against overload from strong LTE signals (base station transmitters) on antenna amplifier, TV-tuner, set-top box, and TV.

Triax filters protect against the entire LTE mobile broadband spectrum ch. 61-69 (791-862MHz) and are customised to provide the highest protection in the LTE mobile broadband "downlink" frequency spectrum 791-821MHz, where LTE transmission levels will be highest.

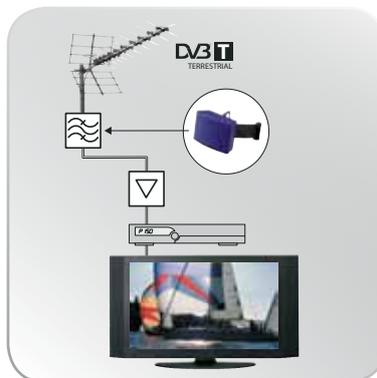
Whereas ordinary high order low pass filters claim higher dB rejecting levels, only Triax high performance LTE band stop filters provide up to 20 dB rejection within the first critical 13MHz frequency spectrum. The illustration to the right shows why Triax high performance filters are the right choice if you want to enjoy a high quality HD TV experience, without interference from the LTE mobile broadband.

Triax high performance filters TBS 259 (passband ch. 59) and TBS 260 (passband ch. 60) are available with two different filter characteristics and as an indoor version (for passive networks), and outdoor version (for active networks).

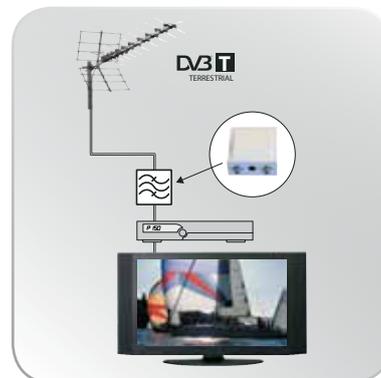
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Application examples



Active network (with antenna amplifier):
Use Triax outdoor filter and place it as close to the antenna as possible and before antenna amplifier, TV-tuner, set-top box and TV.



Passive network:
Use Triax indoor filter and place it as close to the TV as possible but before the set-top box and TV.



High performance LTE band stop filters



Technical data

Product			TBSI 259	TBSO 259	TBSI 260	TBSO 260
Art. No. - indoor - outdoor			314070	314071	314072	314073
Numbers of in- and output			1/1	1/1	1/1	1/1
Input	Band		BI/BII/BIII (DAB)/UHF	BI/BII/BIII (DAB)/UHF	BI/BII/BIII (DAB)/UHF	BI/BII/BIII (DAB)/UHF
	Frequency Channel	MHz	47-782	47-782	47-790	47-790
Through loss/ Rejection	750 MHz (incl. E55)	dB	0.80	0.80	0.80	0.80
	758 MHz (incl. E56)	dB	0.85	0.85	0.85	0.85
	766 MHz (incl. E57)	dB	1.0	1.0	0.95	0.95
	774 MHz (incl. E58)	dB	1.3	1.3	1.2	1.2
	782 MHz (incl. E59)	dB	2.2	2.2	1.5	1.5
	790 MHz (incl. E60)	dB	≥ 7.0	≥ 7.0	2.4	2.4
	791 MHz	dB	≥ 8.8	≥ 8.8	2.7	2.7
	796 MHz	dB	≥ 22.0	≥ 22.0	≥ 5.1	≥ 5.1
	800 MHz	dB	≥ 21.0	≥ 21.0	≥ 11.7	≥ 11.7
	803 MHz	dB	≥ 21.4	≥ 21.4	≥ 20.3	≥ 20.3
	821 MHz	dB	≥ 25.9	≥ 25.9	≥ 35.0	≥ 35.0
	832 MHz	dB	≥ 21.5	≥ 21.5	≥ 25.9	≥ 25.9
	862 MHz	dB	≥ 23.5	≥ 23.5	≥ 23.3	≥ 23.3
Cross band with partly reception		MHz	782-792	782-792	790-800	790-800
Return loss	47-782	MHz	> 12.0	> 12.0		
	47-890	MHz			> 12.0	> 12.0
Impedance		Ohm	75	75	75	75
Shielding efficiency		dB	≥ 75.0	≥ 75.0	≥ 75.0	≥ 75.0
Shielding measured according to EN 50083-2 & 60728-2 typical		dB	≥ 79.0	≥ 79.0	≥ 79.0	≥ 79.0
DC pass			Yes	Yes	Yes	Yes
Connectors			F-con	F-con	F-con	F-con
Weight		kg	0.150	0.175	0.150	0.175
Dimensions	H x D x W	mm	75 x 36 x 75	108 x 50 x 120	75 x 36 x 75	108 x 50 x 120



New filter, amplifier and antenna

Use a sharp band-stop filter located near the antenna, an amplifier with low noise figure / high input level and a new TV antenna designed to receive only up to channel 60



Cabel-tv network with ch. 60-69

Efficient high shielding is essential to avoid the disruption of a cable television network - here it is important that the antenna cables, connectors and signal taps, splitters and sockets meet the standards of highest shielding class (class A+, A+).

Click [here](#) for more background info on Triax LTE Protection

