

**336-470MHz****850-870MHz**

## 1.1 TF411 TX FILTER 25DB

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### Description

The TF411 is a high-power TX filter used to reduce the unwanted radiation in the RX band in Base Stations provided with the TC411 Cavity Combiner. In addition, it is equipped with a forward and reflected directional coupler for TX Antenna power measurements.

Together with the selectivity of the Cavity Combiner, a total rejection in the RX band of 60dB is obtained.

The filter is designed to handle very high peak power and allows up to 16 25W TETRA Carriers to be connected to the Cavity Combiner.



Damm Cellular Systems A/S, Denmark

Doc. No.  
D104701-REF

Rev.  
1.03

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TF411 TX filter 25dB

## Specification

Parameter	Value
<b>Frequency:</b>	<b>See ordering specification</b>
<b>Input power</b>	<b>16x30W max.</b>
<b>Insertion loss</b>	<b>0.2dB typ.</b>
<b>Rejection in RX band</b>	<b>25dB min.</b>
<b>Duplex spacing 400MHz/800MHz</b>	<b>10MHz/45MHz</b>
<b>Directional coupler coupling</b>	<b>-40dB +/-0.5dB</b>
<b>Directional coupler directivity</b>	<b>20dB min.</b>
<b>Connectors:</b>	
<b>Output connector</b>	<b>DIN 7/16mm female</b>
<b>Input connector</b>	<b>N female</b>
<b>Connectors on directional couplers (x2)</b>	<b>BNC female</b>
<b>Physical:</b>	
<b>Dimensions (HxWxD) 400MHz (800Hz)</b>	<b>320x320x85 mm (200x240x55 mm)</b>
<b>Weight 400MHz (800MHz)</b>	<b>4.1kg (1.3kg)</b>

## Ordering

NB: Actual 5/20MHz Bandwidth shall be stated when ordering

Item number	Description
104701	TF411 TX filter 25dB 390-400MHz, 5MHz BW
104702	TF411 TX filter 25dB 420-430MHz, 5MHz BW
104703	TF411 TX filter 25dB 460-470MHz, 5MHz BW
104705	TF411 TX filter 25dB 360-370MHz, 5MHz BW
104706	TF411 TX filter 25dB 336-346MHz, 10MHz BW
104708	TF411 TX filter 25dB 850-870MHz, 20MHz BW