

**VI TELEFILTER****Filter Specification****TFS 155 - Page 1 /2****Measurement condition**

Ambient temperature: 23 °C

Input power level: 0 dBm

Terminating impedances:

Input: : 670 Ω // -1 pF

Output: : 670 Ω // -1 pF

**Characteristics**

Remark:

Reference level for the relative attenuation  $a_{rel}$  of the TFS 155 is the maximum pass band attenuation, which is defined as the insertion loss  $a_e$ . The nominal frequency  $f_N$  is fixed at 155,52 MHz without tolerance or limit. The values of relative attenuation  $a_{rel}$  are guaranteed in the whole operating temperature range. The frequency shift of the filter in the operating temperature range is included in the production tolerance scheme.

<b>D a t a</b>		<b>typ. value</b>	<b>tolerance / limit</b>	
<b>Insertion loss</b> (Reference level)	$a_e$	2,5	max.	5 dB
<b>Nominal frequency</b>	$f_N$	155,525 MHz	155,52	MHz
<b>Usable signal band width</b>			min. ± 10	kHz
<b>Relative attenuation</b>	$a_{rel}$			
$f_N + 910$ kHz		70 dB	min.	65 dB
$f_N ± 3$ MHz $f_N ± 10$ MHz		65 dB	min.	50 dB
<b>Temperature coefficient of frequency</b>	$TC_f$ *)	- 0,036 ppm/K <sup>2</sup>	-	
<b>Frequency inversion temperature</b>	$T_o$	+ 25 °C	-	
<b>Operating temperature range</b>		- 10 °C ... + 50 °C		

\*)  $\Delta f(\text{Hz}) = TC_f(\text{ppm/K}^2) \times (\Delta T)^2 \times f_{T0}(\text{MHz})$

**generated:** \_\_\_\_\_

**checked / approved:** \_\_\_\_\_

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**Construction, pin configuration and 50 Ω matching network:**

