

Vectron International**Filter specification****TFS 1621H****1/5****Measurement condition**

Ambient temperature T_A :	23	°C
Input power level:	0	dBm
Terminating impedance:		
Input:	50	Ω
Output:	50	Ω

Characteristics

Remark:

The maximum attenuation in the pass band is defined as the insertion loss a_e . The nominal frequency f_N is fixed at 1621.25 MHz without any tolerance or limit. The values of absolute attenuation a_{abs} are guaranteed for the whole operating temperature range. The frequency shift of the filter in the operating temperature range is included in the production tolerance scheme.

D a t a		typ. value		tolerance / limit		
Insertion loss	a_e	2.0	dB	max.	2.75	dB
Nominal frequency	f_N	-			1621.25	MHz
Passband	PB	-		$f_N \pm$	5.25	MHz
Absolute attenuation	a_{abs}					
200 MHz ... 1475 MHz		43	dB	min.	35	dB
1475 MHz ... 1570 MHz		32	dB	min.	30	dB
1570 MHz ... 1575 MHz		27	dB	min.	20	dB
1652 MHz ... 1662 MHz		19	dB	min.	5	dB
1662 MHz ... 1670 MHz		55	dB	min.	30	dB
1670 MHz ... 2200 MHz		39	dB	min.	35	dB
2200 MHz ... 3000 MHz		29	dB	min.	25	dB
Return loss		14	dB	min.	10	dB
Input power level		-		max.	10	dBm
Operating temperature range	OTR	-			-40 °C ... + 85 °C	
Storage temperature range		-			-55 °C ... +125 °C	
Temperature coefficient of frequency	TC_f *)	-42	ppm/K		-	

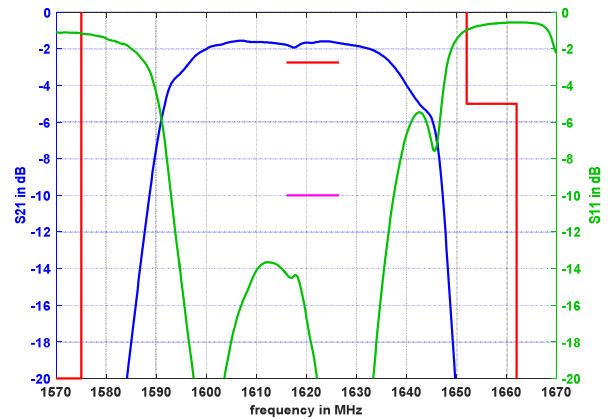
*) $\Delta f = TC_f(T - T_A)f_N$

Generated:**Checked / Approved:**

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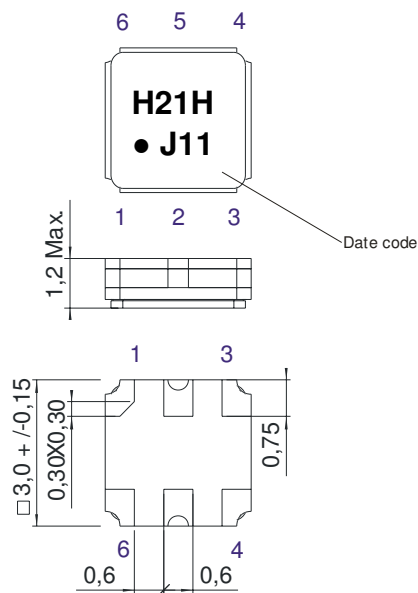
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Filter characteristic



Construction and pin connection

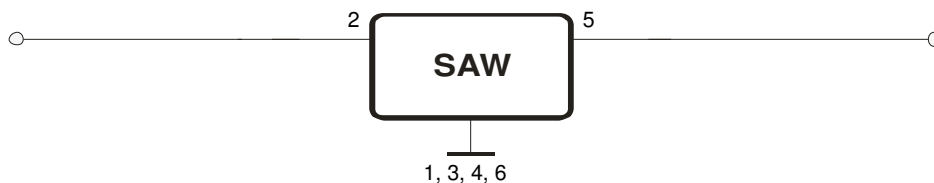
(All dimensions in mm)



- 1 Ground
- 2 Input
- 3 Ground
- 4 Ground
- 5 Output
- 6 Ground

Date code: Year + week
 J 2017
 K 2018
 L 2019
 ...

50 Ω Test circuit



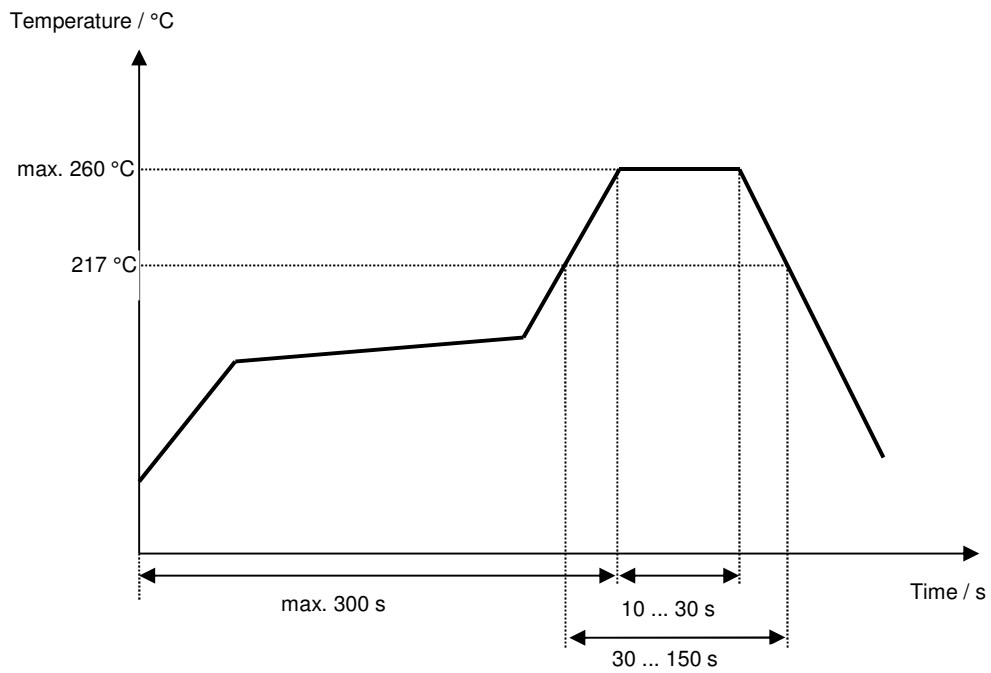
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Air reflow temperature conditions

Conditions	Exposure
Average ramp-up rate (30 °C to 217 °C)	less than 3 °C / second
> 100 °C	between 300 and 600 seconds
> 150 °C	between 240 and 500 seconds
> 217 °C	between 30 and 150 seconds
Peak temperature	max. 260 °C
Time within 5 °C of actual peak temperature	between 10 and 30 seconds
Cool-down rate (Peak to 50 °C)	less than 6 °C / second
Time from 30 °C to Peak temperature	no greater than 300 seconds

Chip-mount air reflow profile



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History

Version	Reason of Changes	Name	Date
1.0	- Generation of filter specification	Abutaimah	21.03.2017