

VI TELEFILTER**Specification****TFS 469 - 1/4****Measurement condition**

Ambient temperature: 23 °C
 Input power level: 0 dBm
 Terminating impedance: 270 Ω || -1pF

Construction and pin connection

see page 2

Stability characteristics and packing

see page 3

Air reflow temperature conditions

see page 4

Characteristics

Remark:

Reference level for the relative attenuation a_{rel} is the minimum of the pass band attenuation a_{min} . The minimum of the pass band attenuation a_{min} is defined as the insertion loss a_e . The nominal frequency is fixed on 469.99 MHz. The centre frequency f_0 is the arithmetic mean value of the upper and lower frequencies at the 3 dB filter attenuation level relative to the insertion loss a_e .

D a t a		typ. value	Variation / Limitation
Insertion loss (Reference level)	$a_e = a_{min}$	3 dB	max. 5 dB
Nominal frequency	f_N	-	469.99 MHz
Centre frequency	f_0	469,99 MHz	-
3 dB - bandwidth	BW	280 kHz	-
Usable signal bandwidth		-	min. $f_N \pm 10$ kHz
Relative attenuation $f_N + 910$ kHz $f_N \pm 0,7$ MHz ... $f_N \pm 10$ MHz	a_{rel}		min. 52 dB min. 40 dB
Temperature coefficient of frequency	TC_f	-0,036 ppm/K ²	-
Frequency inversion temperature		+ 25 °C	
Operating temperature range			- 10°C ... + 50°C

generated: _____

checked / approved: _____

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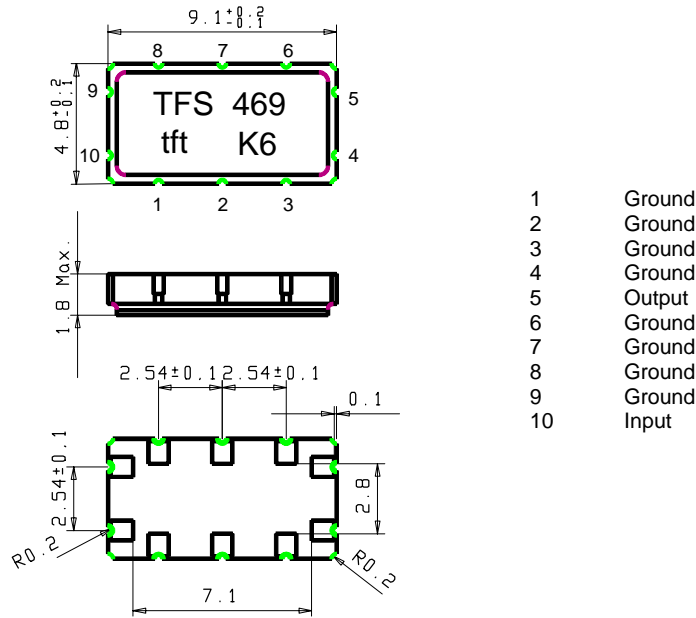
Vectron Technologies, Inc.
 267 Lowell Road
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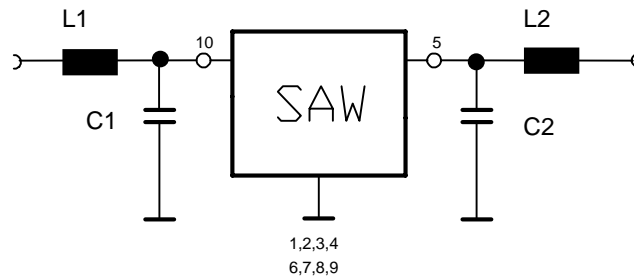
Specification

TFS 469 - 2/4

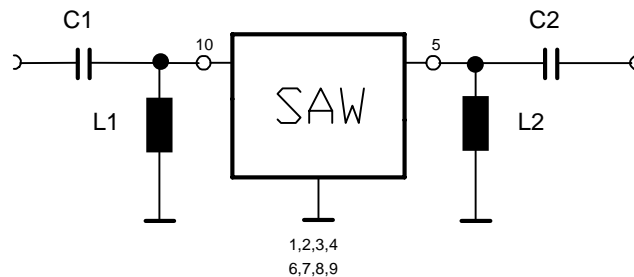
Construction and pin connection
(All dimensions in mm)



50 Ω test circuit 1



50 Ω test circuit 2



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VI TELEFILTER**Specification****TFS 469 - 4/4****Air reflow temperature conditions**

1st and 2nd air reflow profile

Name:	pre-heating periods	main-heating periods	peak temperature
Temperature:	150 °C - 170 °C	over 200 °C	255 °C ± 5 °C
Time:	60 sec. - 90 sec.	20 sec. - 25 sec.	

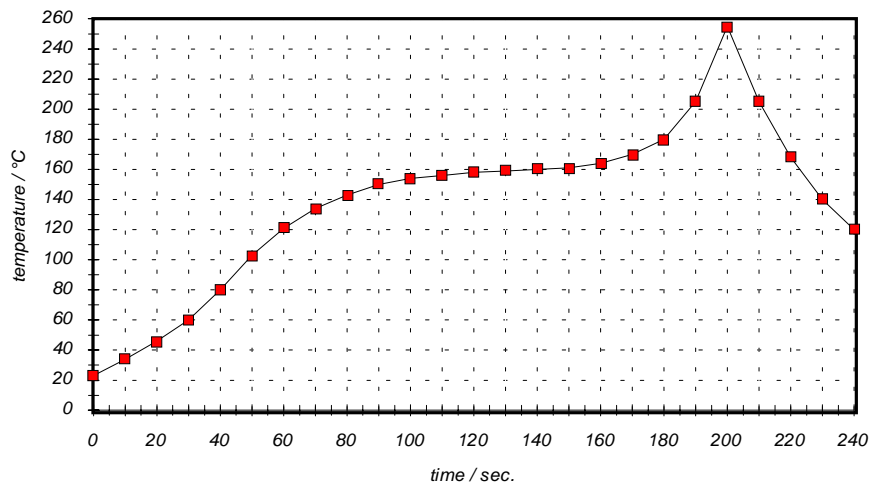
Chip-mount air reflow profile

Table for temperature vs. time during the air reflow process

Tolerance of temperatures: ± 5 °C

time / sec.	temperature / °C	time / sec.	temperature / °C
0	23	140	160
10	34	150	161
20	46	160	164
30	60	170	170
40	80	180	180
50	103	190	205
60	121	195	230
70	134	200	255
80	143	205	230
90	150	210	205
100	154	215	180
110	156	220	165
120	158	230	140
130	159	240	120

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