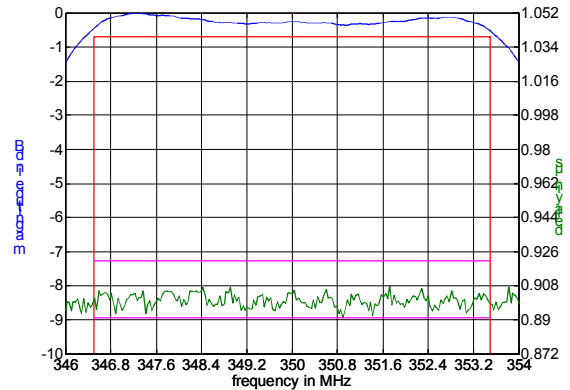
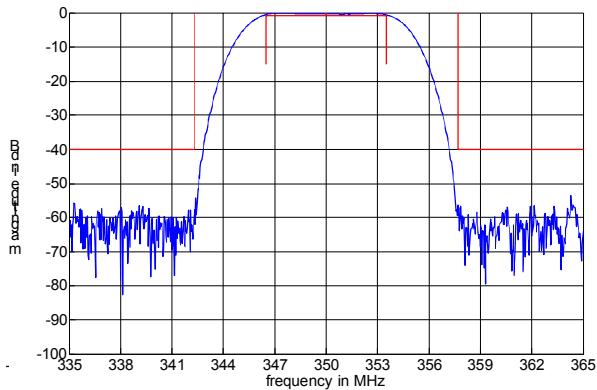


VI TELEFILTER**Filter Specification****TFS 350A****1/5****Measurement condition**

(Reference Level)

Nominal Frequency	f_N	-	350,0	MHz
Pass Band	PB	-	$f_N \pm 3,5$	MHz
Amplitude Ripple within PB		-	max. 0,5	dB p-p
Return loss in PB		14	dB	-
Group Delay Variation within PB		25	ns	max. 30 ns
Relative Attenuation	a_{rel}			
f_N ... $f_N \pm 3,5$ MHz		0,4	dB	max. 0,7 dB
$f_N \pm 7,7$ MHz ... $f_N \pm 30$ MHz		48	dB	min. 40 dB
$f_N \pm 30$ MHz ... $f_N \pm 350$ MHz		60	dB	min. 50 dB
Operating Temperature Range		-	-40... +85	° C
Storage Temperature Range		-	-55... +85	° C
Turnover temperature T_0		20	°C	-
Temperature Coefficient of frequency TC_f^{**}		- 0,036	ppm / K ²	-

*) The terminating impedances depend on parasitics and q-values of matching elements and the board used, and are to be understood as reference values only. Should there be additional questions, do not hesitate to ask for an application note or contact our design team.

**) $\Delta f(\text{Hz}) = TC_f(\text{ppm/K}^2) \times (T - T_0)^2 \times f_{T0}(\text{MHz})$

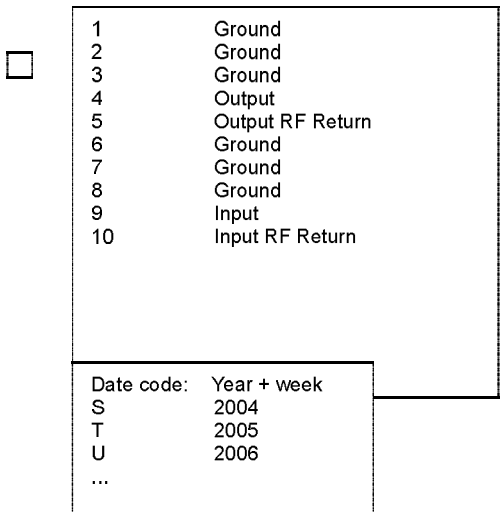
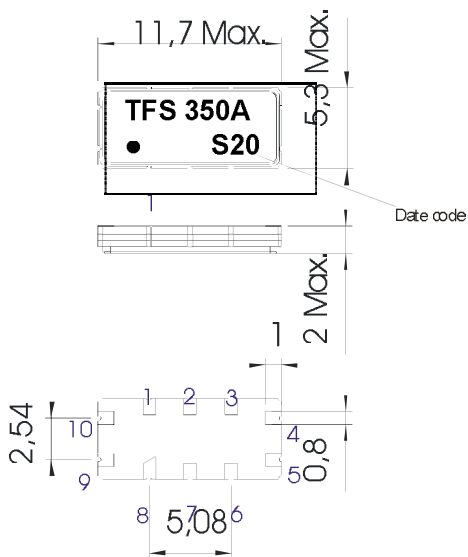
Generated:**Checked / Approved:****Filter characteristic**

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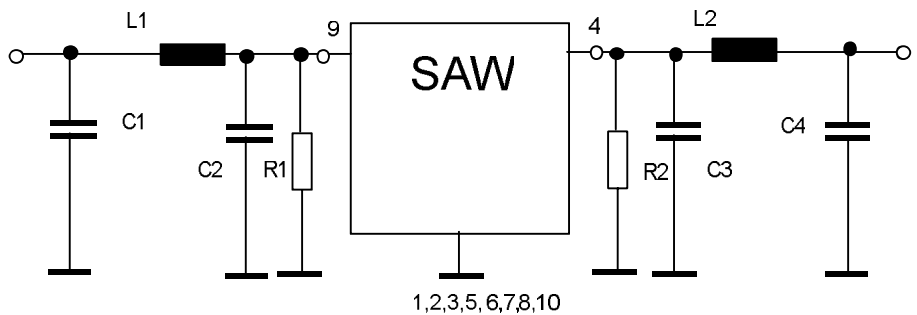
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Construction and pin connection

(All dimensions in mm)



50 Ω Test circuit



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VI TELEFILTER**Filter Specification****TFS 350A****4/5****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.	

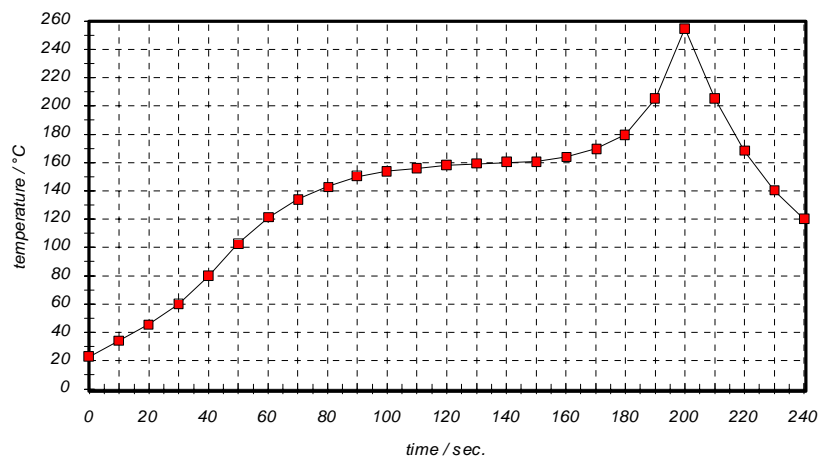
Chip-mount air reflow profile

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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VI TELEFILTER**Filter Specification****TFS 350A****5/5****History**

Version	Reason of Changes	Name	Date
1.0	generation of specification according to customer requirements	Pfeiffer	28.01.2002
1.1	typical value for return loss and extended storage temperature range added	Steiner	11.02.2002
1.2	changing relative attenuation (40 dB – bandwidth)	Pfeiffer	10.04.2002
1.3	typical values added terminating impedance added changed pinning 'output rf return'	Pfeiffer	21.05.2002
1.4	package (pin 1 marker) modified	Pfeiffer	12.05.2004

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