



# SAW Components

Preliminary Data LE19A

Data Sheet

A large, stylized, 3D-rendered EPCOS logo is shown, appearing to be part of a globe or a sphere. The logo is white and stands out against a dark, textured background that resembles a globe with latitude and longitude lines.



## SAW Components

LE19A

### Low-Loss Filter

2140 MHz

#### Preliminary Data

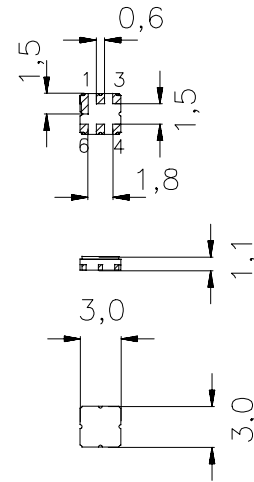
SMD ceramic package **DCC6C**

#### Features

- Low-loss RF filter for UMTS system, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50  $\Omega$
- Ceramic Package for **Surface Mounted Technology (SMT)**

#### Terminals

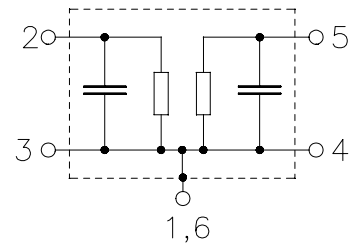
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

#### Pin configuration

- 2 Input
- 1, 3 Input ground
- 5 Output
- 4, 6 Output ground



Type	Ordering code	Marking and Package according to	Packing according to
LE19A		C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

#### Maximum ratings

Operable temperature range	$T$	- 20/+ 80	$^{\circ}\text{C}$
Storage temperature range	$T_{\text{stg}}$	- 40/+ 85	$^{\circ}\text{C}$
DC voltage	$V_{\text{DC}}$	0	V
Source power	$P_s$	10	dBm



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## Characteristics

Operating temperature range:	$T_A$	=	-20 ... +85 °C
Terminating source impedance:	$Z_S$	=	50 $\Omega$
Terminating load impedance:	$Z_L$	=	50 $\Omega$

		min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$	—	2140,0	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$				
2110,0 ... 2170,0 MHz		—	3,0	3,5	dB
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$				
2110,0 ... 2170,0 MHz		—	1,0	1,5	dB
<b>Return loss</b>					
2110,0 ... 2170,0 MHz		9,0	11,0	—	dB
<b>Attenuation</b>	$\alpha$				
50,0 ... 1400,0 MHz		22,0	27,0	—	dB
1400,0 ... 1910,0 MHz		25,0	28,0	—	dB
1910,0 ... 1980,0 MHz		30,0	38,0	—	dB
2300,0 ... 3700,0 MHz		25,0	30,0	—	dB
3700,0 ... 5300,0 MHz		20,0	25,0	—	dB
5300,0 ... 5700,0 MHz		15,0	18,0	—	dB
<b>Temperature coefficient of frequency</b>	$TC_f$	—	-35	—	ppm/K



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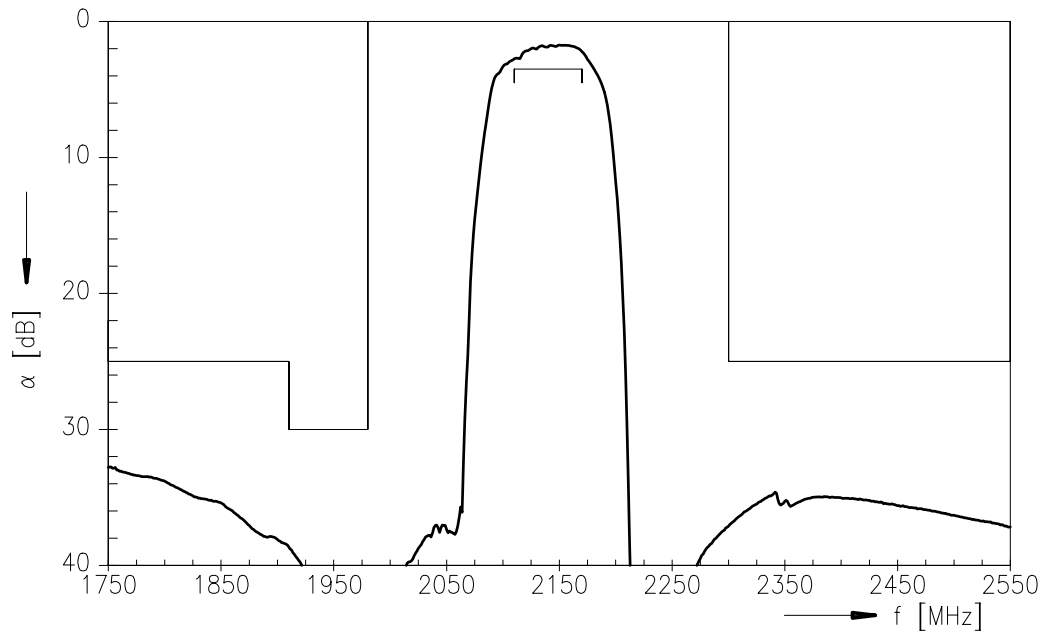
LE19A

Low-Loss Filter

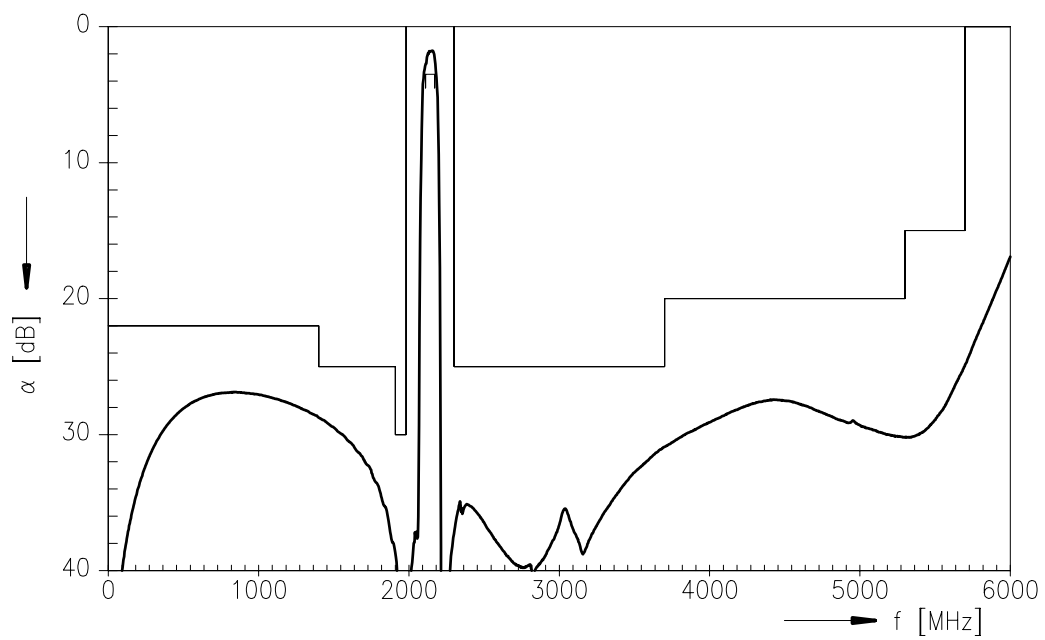
2140 MHz

Preliminary Data

Transfer function (narrow band)



Transfer function (wide band)





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<b>Low-Loss Filter</b>	<b>2140 MHz</b>

Preliminary Data

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