EPCOS

SAW Components

Preliminary Data LE18A

Preliminary Data

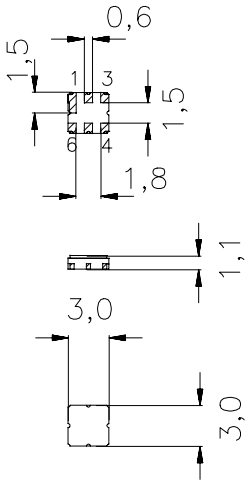
SMD ceramic package **DCC6C**

Features

- Low-loss RF filter for UMTS system, transmit path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for **S**urface **M**ounted **T**echnology (**SMT**)

Terminals

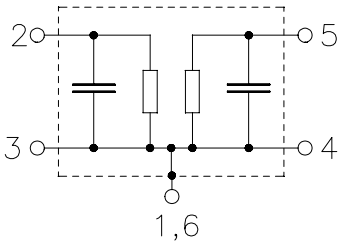
- Ni, gold-plated



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
LE18A		C61157-A7-A67	F61074-V8088-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 20/+ 80	˚C
Storage temperature range	T_{stg}	– 40/+ 85	˚C
DC voltage	V_{DC}	0	V
Source power	P_s	10	dBm

Preliminary Data

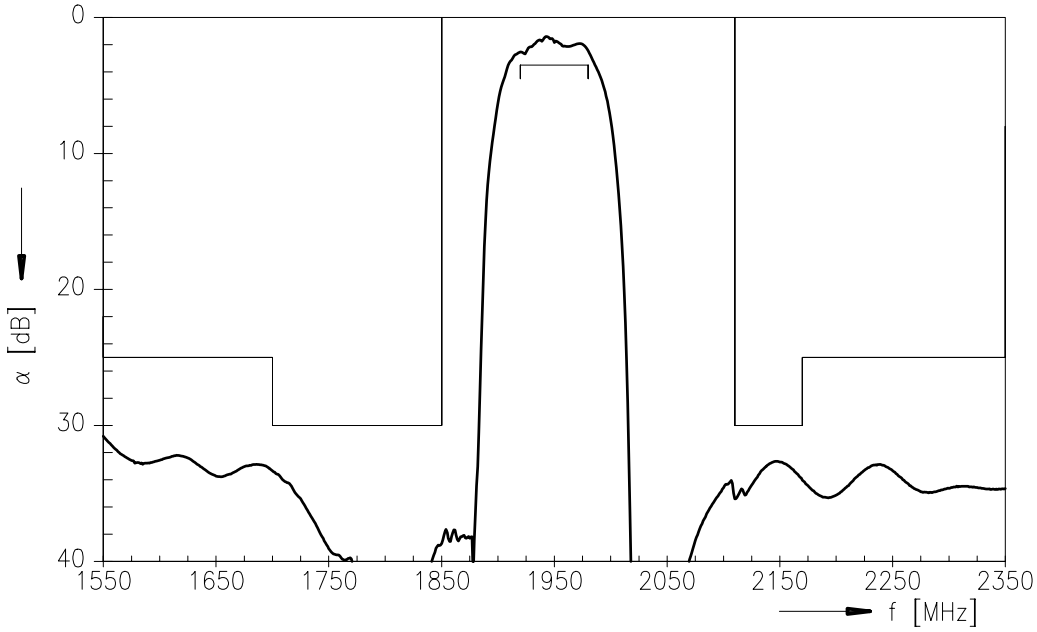
Characteristics

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

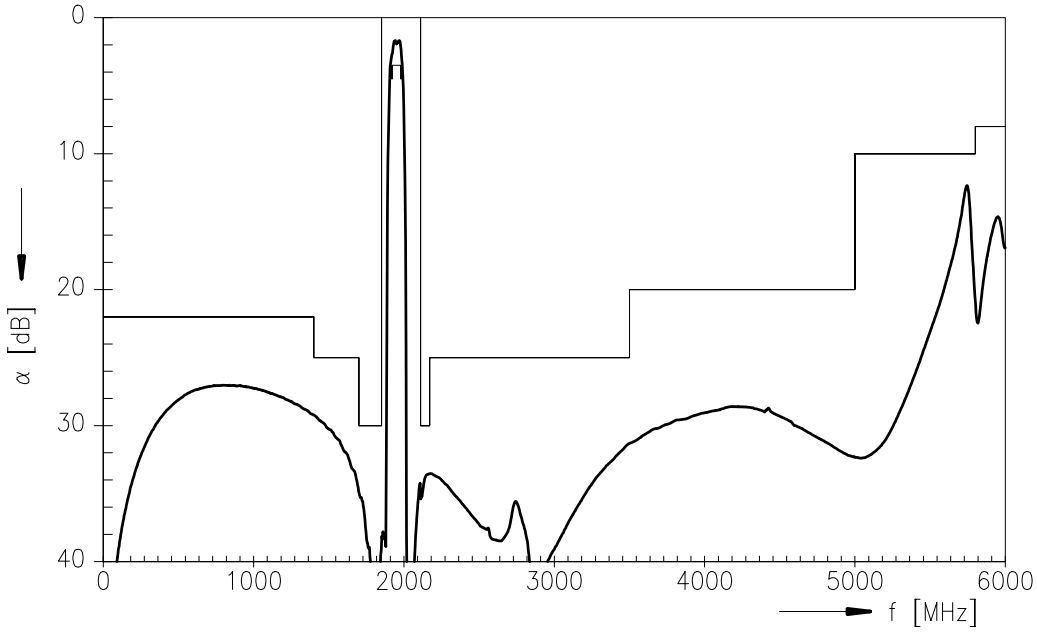
		min.	typ.	max.	
Nominal frequency	f_N	—	1950,0	—	MHz
Maximum insertion attenuation	α_{max}				
1920,0 ... 1980,0 MHz		—	3,0	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1920,0 ... 1980,0 MHz		—	1,5	2,1	dB
Return loss					
1920,0 ... 1980,0 MHz		8,0	10,0	—	dB
Attenuation	α				
50,0 ... 1400,0 MHz		22,0	25,0	—	dB
1400,0 ... 1700,0 MHz		25,0	28,0	—	dB
1700,0 ... 1850,0 MHz		30,0	34,0	—	dB
2110,0 ... 2170,0 MHz		30,0	32,0	—	dB
2170,0 ... 3500,0 MHz		25,0	32,0	—	dB
3500,0 ... 5000,0 MHz		20,0	25,0	—	dB
5000,0 ... 5800,0 MHz		10,0	12,0	—	dB
5800,0 ... 6000,0 MHz		8,0	10,0	—	dB
Temperature coefficient of frequency	TC_f	—	-35	—	ppm/K

Preliminary Data

Transfer function (narrow band



Transfer function (wide band)



Published by EPCOS AG
Surface Acoustic Wave Components Division, SAW MC IS
P.O. Box 80 17 09, D-81617 München

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.
Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.