

Preliminary Data Sheet B7747





B7747

Low-Loss Filter for Mobile Communication

1880,0 MHz

Preliminary Data Sheet



Features

- Low-loss RF filter for mobile telephone PCS systems, transmit path
- High selectivity
- Usable passband 60 MHz
- Unbalanced to unbalanced operation
- No external matching required
- Package for Surface Mounted Technology (SMT)

bottom view 4 3 0,7 side view 2,5 top view

Chip Sized SAW Package DCS4D

Terminals

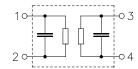
■ Gold-plated Ni

Dimensions in mm, approx. weight 0,027g

Pin configuration

1 Input 3 Output

2, 4 To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to
B7747	B39192-B7747-C810	C61157-A7-A89	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 30 /+ 85	°C	
operating temperature range	•	007.00	•	
Storage temperature range	T	- 40 /+ 85	°C	
Olorage temperature range	' stg	- 1 0 / + 03	0	
DC voltage	1/	2	\/	
DC vollage	$v_{\rm DC}$	3	V	
Input Power max.	D	15	dBm	source impedance 50 Ω
input Fower max.	r _{IN}	13	ubili	Source impedance 50 12



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Characteristics

Operating Temperature Range: $T=25\,^{\circ}\mathrm{C}$ Terminating source impedance: $Z_{\mathrm{S}}=50\,\Omega$ Terminating load impedance: $Z_{\mathrm{L}}=50\,\Omega$

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	1880,0	_	MHz
$\textbf{Maximum insertion attenuation} \qquad \qquad \alpha_{\text{max}}$							
1850,0	1910,0	MHz		_	2,9	3,8	dB
Amplitude ripple (p-p)		Δα					
1850,0	1910,0	MHz		_	1,5	2,5	dB
Input VSWR							
1850,0 Output VSWR	1910,0	MHz		_	1,8	2,1	
•	1910,0	MHz		_	1,8	2,1	
Attenuation			α				
0,0		MHz		25,0	28,0	_	dB
1930,0	1935,0	MHz		22,0	25,0	_	dB
1935,0	1990,0	MHz		26,0	29,0	_	dB
2032,0	2092,0	MHz		34,0	36,0	_	dB
2150,0	2340,0	MHz		34,0	36,0	_	dB
2340,0	5000,0	MHz		20,0	26,0	_	dB
							1



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 \equiv MD

Characteristics

Operating Temperature Range: $T = -30 \text{ to } +85^{\circ}\text{C}$ Terminating source impedance: $Z_{\text{S}} = 50 \Omega$ Terminating load impedance: $Z_{\text{I}} = 50 \Omega$

min. typ. max. f_{C} 1880,0 MHz **Center frequency Maximum insertion attenuation** α_{max} 1850,0 ... 1910,0 MHz 2,9 4,7 dΒ Amplitude ripple (p-p) $\Delta \alpha$ 1850,0 ... 1910,0 MHz 1,5 3,4 dB Input VSWR 1850,0 ... 1910,0 MHz 2,1 1,8 **Output VSWR** 1850,0 ... 1910,0 MHz 2,1 1,8 Attenuation α dΒ 0,0 ... 1720,0 MHz 25,0 28,0 1930,0 ... 1935,0 MHz 18,0 25,0 dB 1935,0 ... 1990,0 MHz 26,0 29,0 dΒ 2032,0 ... 2092,0 MHz 34,0 36,0 dB 2150,0 ... 2340,0 MHz 34,0 36,0 dΒ 2340,0 ... 5000,0 MHz 20,0 26,0 dB



SAW Components

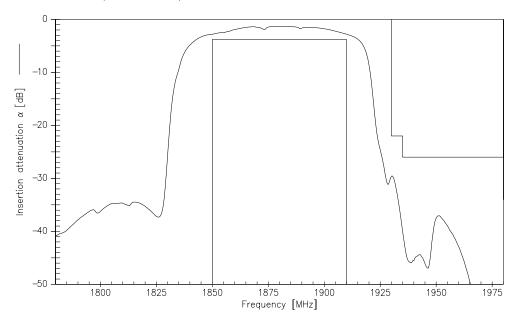
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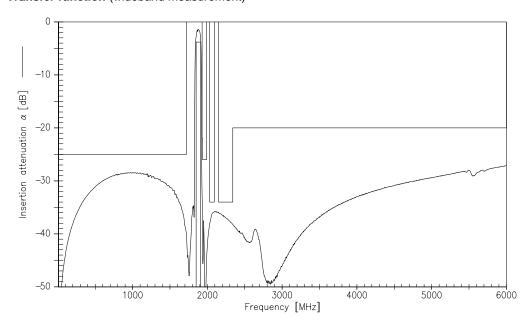
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1880,0 MHz

Transfer function (measurement)



Transfer function (wideband measurement)





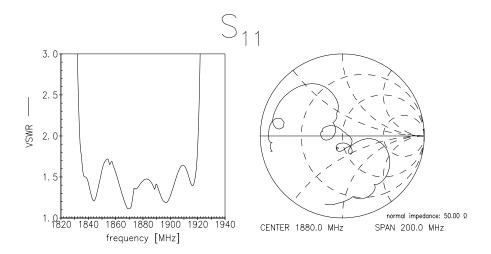
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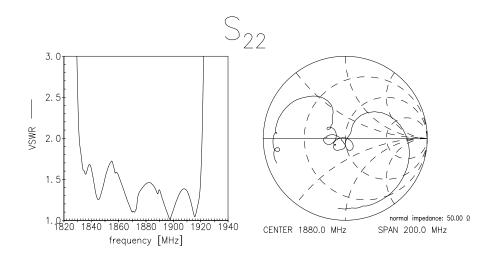
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Matching (measurement)







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ublished by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, 81617 Munich, GERMANY

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