

B4697 902,5 MHz

Data Sheet

Features

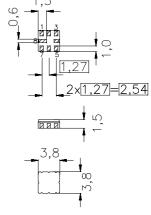
- Low-loss RF filter for mobile telephone, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- No matching network required for operation at 50 Ω
- Unbalanced or balanced Operation
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

Ni, gold-plated

1 5

Ceramic package QCC8B



Dimensions in mm, approx. weight 0,07 g

Pin configuration

2	Input or balanced Input	20 -
3	Input - ground or balanced Input	20 1 1 00
6	Output or balanced Output	[〒 ↓ ↓ 〒 [
7	Output - ground or balanced Output	30 0 7
4,8	Case - ground	
1,5	To be grounded	4,8

Туре	Ordering code	Marking and Package according to	Packing according to
B4697	B39901-B4697-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	– 25 / + 75	°C	
Storage temperature range	$T_{ m stg}$	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}^{\rm org}$	3	V	
Input power Max.	P_{s}	10	dBm	source and load impedance 50 Ω peak power of GSM signal duty
090 913 WH IZ				cycle 1:8
elsewhere		0	dbm	0

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Characteristics

Operating temperature: $T=25+-2\,^{\circ}\mathrm{C}$ Terminating source impedance: $Z_{\mathrm{S}}=50\,\Omega$ Terminating load impedance: $Z_{\mathrm{L}}=50\,\Omega$

		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	_	902,5	_	MHz
Maximum insertion attenuation					
890,0 915,0 MH	α _{max} z		2,4	3,0	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
890,0 915,0 MH	Z	_	0,7	1,3	dB
Attenuation	α_{min}				
0,0 600,0 MH	Z	60,0	70,0	_	dB
600,0 700,0 MH	Z	50,0	55,0	_	dB
700,0 813,0 MH	Z	45,0	55,0	_	dB
813,0 850,0 MH	Z	40,0	50,0	_	dB
850,0 870,0 MH	Z	30,0	36,0	_	dB
925,0 935,0 MH	Z	8,0	13,0	_	dB
935,0 980,0 MH	Z	25,0	27,0	_	dB
980,01200,0 MH	Z	45,0	51,0	_	dB
1200,01700,0 MH	Z	35,0	45,0	_	dB
1700,02400,0 MH	Z	14,0	16,0	_	dB



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Characteristics

Operating temperature: $T = -25 \text{ to } + 75^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 50~\Omega$

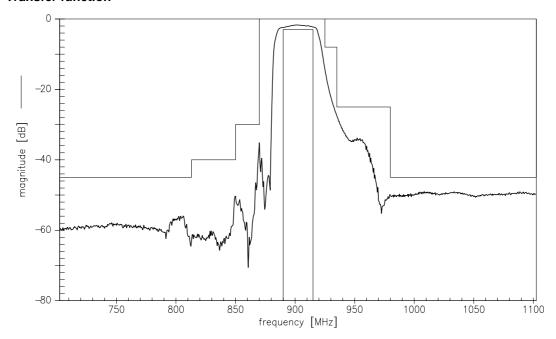
				min.	typ.	max.	
Center frequency			f _C	_	902,5	_	MHz
Maximum insertion attenuation		α_{max}					
890,0	915,0	MHz		_	2,6	3,5	dB
Amplitude ripple (p-p)			Δα				
890,0	915,0	MHz		_	0,9	1,8	dB
Attenuation			α_{min}				
0,0	600,0	MHz		60,0	70,0		dB
600,0	700,0	MHz		50,0	55,0		dB
700,0	813,0	MHz		45,0	55,0		dB
813,0	850,0	MHz		40,0	50,0	_	dB
850,0	870,0	MHz		30,0	36,0		dB
925,0	935,0	MHz		8,0	11,0		dB
935,0	980,0	MHz		25,0	26,0	_	dB
980,01	1200,0	MHz		45,0	51,0	_	dB
1200,01	1700,0	MHz		35,0	45,0	_	dB
1700,02	2400,0	MHz		14,0	16,0		dB



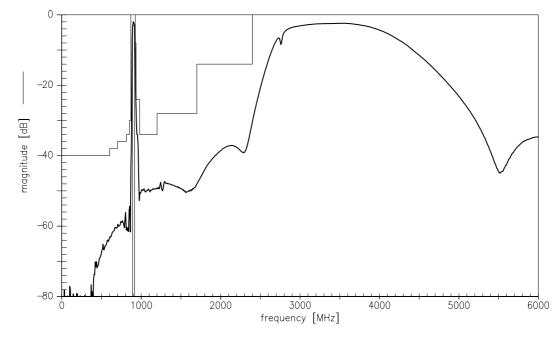
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Data Sheet

Transfer function



Transfer function (wideband)





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Data Sheet

Characteristics

Operating temperature: T = 25+-2 °C

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ (balanced) Terminating load impedance: $Z_{\rm L} = 50~\Omega$ (balanced)

		min.	typ.	max.	
Center frequency	$f_{\mathbb{C}}$	_	902,5	_	MHz
Maximum insertion attenuation					
890,0 915,0 MHz	α _{max}	_	2,6	3,0	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
890,0 915,0 MHz		_	1,0	1,4	dB
Attenuation	α_{min}				
0,0 600,0 MHz		40,0	43,0	_	dB
600,0 700,0 MHz	• =	38,0	41,0	_	dB
700,0 813,0 MHz	• =	36,0	39,0	_	dB
813,0 850,0 MHz		34,0	39,0	_	dB
850,0 870,0 MHz		30,0	33,0	_	dB
925,0 935,0 MHz		8,0	13,0	_	dB
935,0 980,0 MHz		24,0	27,0	_	dB
980,01200,0 MHz	:	34,0	36,0	_	dB
1200,01700,0 MHz		28,0	32,0	_	dB
1700,02400,0 MHz	, :	14,0	30,0	_	dB



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Characteristics

Operating temperature: $T = -25 \text{ to} + 75^{\circ}\text{C}$ Terminating source impedance: $Z_{\text{S}} = 50 \Omega$ (balanced) Terminating load impedance: $Z_{\text{L}} = 50 \Omega$ (balanced)

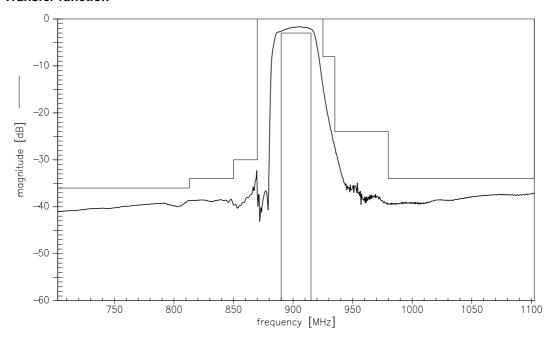
			min.	typ.	max.	
Center frequency		$f_{\mathbb{C}}$	_	902,5	_	MHz
Maximum insertion attenuation						
890,0 91	5,0 MHz	α_{max}	_	2,8	3,5	dB
Amplitude ripple (p-p)		Δα				
890,0 91	5,0 MHz		_	1,2	1,9	dB
Attenuation		α_{min}				
0,0 60	0,0 MHz		40,0	43,0	_	dB
600,0 70	0,0 MHz		38,0	41,0	_	dB
700,0 81	3,0 MHz		36,0	39,0	_	dB
813,0 85	0,0 MHz		34,0	39,0	_	dB
850,0 87	0,0 MHz		30,0	33,0	_	dB
925,0 93	5,0 MHz		8,0	11,0	_	dB
935,0 98	0,0 MHz		24,0	26,0	_	dB
980,0120	0,0 MHz		34,0	36,0	_	dB
1200,0170	0,0 MHz		28,0	32,0	_	dB
1700,0240	0,0 MHz		14,0	30,0		dB



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Transfer function



Transfer function (wideband)

