

B4687 902,5 MHz

Data Sheet

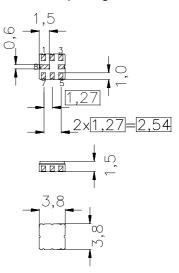
Features

- Low loss RF filter for GSM mobile phone TX
- Low insertion attenuation
- Usable passband 25 MHz
- No matching network required for operation at 50 Ω (input) and 200 Ω (output)
- Unbalanced input, balanced output
- Ceramic Package for Surface Mounted Technology (SMT)

Terminals

Ni, gold-plated

SMD ceramic package QCC8B

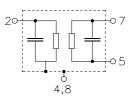


Dimensions in mm, approx. weight 0,07 g

Pin configuration

- 2 Input (50 Ω)
- 4 Input ground
- 5 Balanced output (200 Ω) 7 Balanced output (200 Ω)
- 1,3 To be grounded
- 6 N.C.
- 4,8 Case ground

Filter is reciprocal



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B4687	B39901-B4687-Z810	C61157-A7-A46	F61074-V8037-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20/+ 75	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



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Characteristics

Operating temperature range: $T = 25 + -2 \,^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S}=50~\Omega$ unbalanced Terminating load impedance: $Z_{\rm L}=200~\Omega$ || 80nH balanced

				min.	typ.	max.	
Center frequency				_	902,5	_	MHz
(center frequency between 3 dB points)							
Maximum insertion attenuation			α_{max}				
890,0 MHz	915,0	MHz		_	3,0	3,5	dB
Reference level for the following data							
Amplitude ripple in passband (p-p)			Δα				
890,0 MHz	915,0	MHz		_	0,8	1,0	dB
Relative attenuation (relative to α_{max})			α_{rel}				
0,0 MHz	600,0	MHz		40	75	_	dB
600,0 MHz	870,0	MHz		25	35		dB
925,0 MHz	935,0	MHz		7	15		dB
935,0 MHz	990,0	MHz		20	27	_	dB
990,0 MHz	1500,0	MHz		40	55	_	dB
1500,0 MHz	3000,0	MHz		20	39	_	dB



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Characteristics

Operating temperature range: $T = -20 \,^{\circ}\text{C} \dots 75 \,^{\circ}\text{C}$ Terminating source impedance: $Z_{\text{S}} = 50 \,\Omega$ unbalanced Terminating load impedance: $Z_{\text{L}} = 200 \,\Omega \parallel 80\text{nH}$ balanced

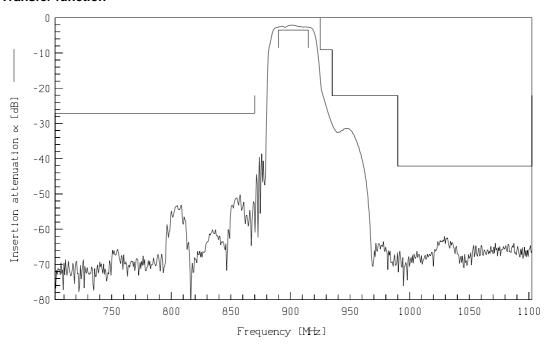
			min.	typ.	max.	
Center frequency	t	f _c	_	902,5	_	MHz
(center frequency between 3 dB points)						
Maximum insertion attenuation						
890,0 MHz 915,0	MHz		_	3,5	4,0	dB
Reference level for the following data						
Amplitude ripple in passband (p-p)	4	Δα				
890,0 MHz 915,0	MHz			1,0	1,5	dB
Relative attenuation (relative to α_{max})	C	α_{rel}				
0,0 MHz 600,0	MHz		40	74		dB
600,0 MHz 870,0	MHz		25	34		dB
925,0 MHz 935,0	MHz		3,5	10		dB
935,0 MHz 990,0	MHz		20	26	_	dB
990,0 MHz 1500,0	MHz		40	54	_	dB
1500,0 MHz 3000,0	MHz		20	38	_	dB



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Transfer function



Transfer function (wideband)

