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B4005 959.5 MHz 914.5 MHz

Ceramic package QCC 8B

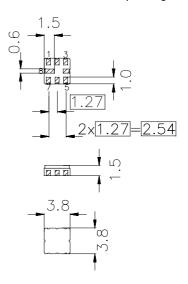
Data Sheet

Features

- Compact RF duplexer for cordless telephone CT1
- ullet No matching network required for operation at 50 Ω
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

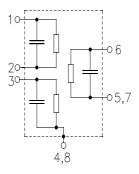
• Ni, gold-plated



Dimensions in mm, approx. weight 0.07 g

Pin configuration

6	Ant
3	Port 1
1	Port 2
5, 7	Ant - ground
2	Port 2 - ground
4.8	Case / Port 1 - ground



Туре	Ordering code	Marking and Package according to	Packing according to
B4005	B39961-B4005-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	0 /+ 60	°C
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°С
DC voltage	$V_{\rm DC}$	3	V
Input power	P_{IN}	17	dBm

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Data Sheet

Characteristics channel 1 (Port 1 - Ant)

Operable temperature range: $T_A = 0 \text{ to } +60 \text{ °C}$ Ant term. impedance $Z_{Ant} = 50 \Omega$ Port 1 term. impedance $Z_{Port 1} = 50 \Omega$ Port 2 term. impedance $Z_{Port 2} = 50 \Omega$

		min.	typ.	max.	
Center frequency	f_{C}	_	959.5	_	MHz
Maximum insertion attenuation					
959.00 960.00 MHz		_	3.3	4.0	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
959.00 960.00 MHz		_	0.7	2.0	dB
Absolute attenuation	α				
50.00 850.00 MHz		50	54	_	dB
850.00 917.20 MHz		37	40	_	dB
917.20 938.60 MHz		34	37	_	dB
938.60 949.30 MHz		8	15	_	dB
969.70 970.70 MHz		10	25	_	dB
970.70 980.40 MHz		17	27	_	dB
980.40 981.40 MHz		32	40	_	dB
981.40 1001.80 MHz		26	30	_	dB
1001.80 1002.80 MHz		30	33	_	dB
1015.00 1350.00 MHz		40	45	_	dB
1350.00 1850.00 MHz		32	36	_	dB
1850.00 2000.00 MHz		28	31	_	dB



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Data Sheet

Characteristics channel 2 (Port 2 - Ant)

Operable temperature range: $T_A = 0 \text{ to } +60 \text{ °C}$ Ant term. impedance $Z_{Ant} = 50 \Omega$ Port 1 term. impedance $Z_{Port 1} = 50 \Omega$ Port 2 term. impedance $Z_{Port 2} = 50 \Omega$

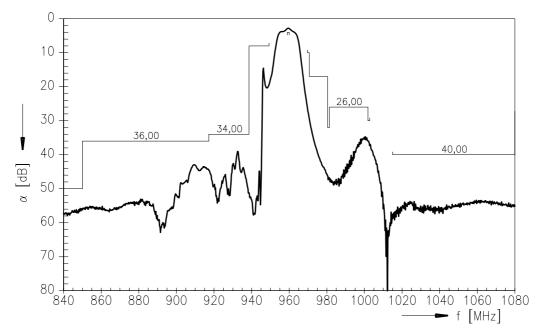
	min.	typ.	max.	
	_	914.5	_	MHz
	nax			
914.00 915.00 MHz	_	3.0	4.0	dB
Amplitude ripple (p-p) Δc	X			
914.00 915.00 MHz	_	0.7	2.0	dB
$\textbf{Absolute attenuation} \qquad \qquad \alpha$				
50.00 850.00 MHz	52	57	_	dB
850.00 872.20 MHz	45	53	_	dB
872.20 893.60 MHz	28	35	_	dB
893.60 904.30 MHz	6	18	_	dB
924.70 925.70 MHz	12	27	_	dB
925.70 935.40 MHz	20	29	_	dB
935.40 936.40 MHz	32	38	_	dB
936.40 956.80 MHz	26	30	_	dB
956.80 959.00 MHz	32	38	_	dB
959.00 1000.00 MHz	37	44		dB
1000.00 1350.00 MHz	44	47	_	dB
1350.00 1850.00 MHz	25	28	_	dB
1850.00 2000.00 MHz	18	25	_	dB



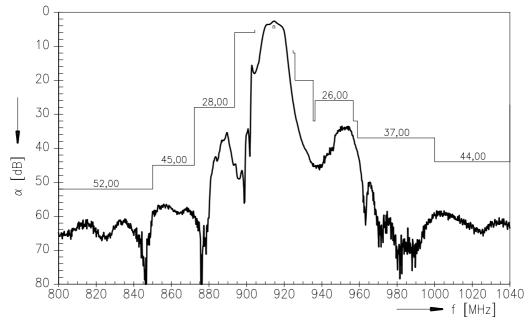
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Data Sheet

Frequency response channel 1:



Frequency response channel 2:



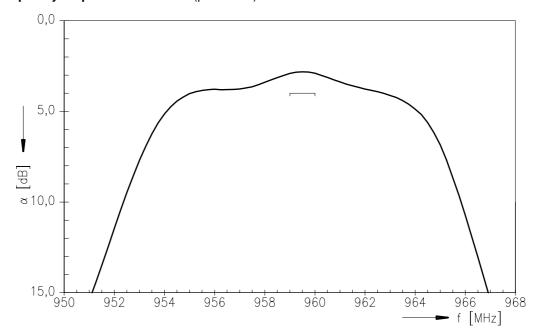
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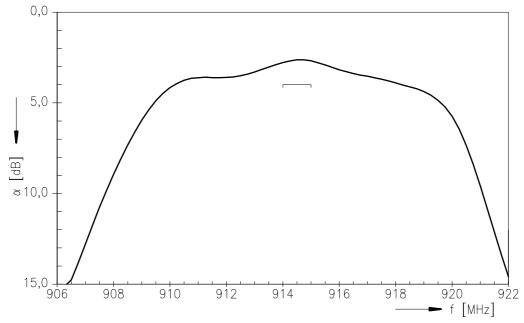
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Data Sheet

Frequency response channel 1: (passband)



Frequency response channel 2: (passband)



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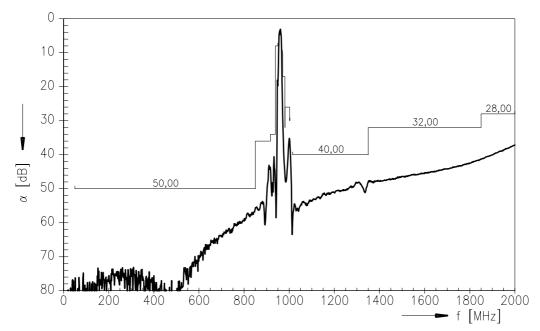
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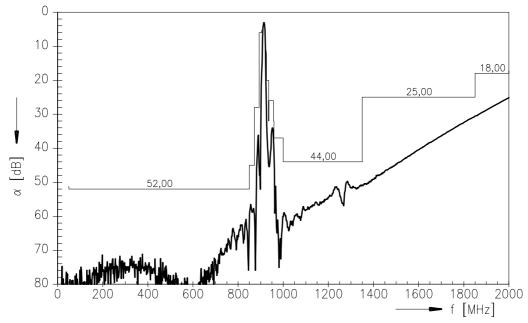
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Data Sheet

Frequency response channel 1: (wideband)



Frequency response channel 2: (wideband)



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Data Sheet

Isolation between channel 1 and channel 2

 $\begin{array}{lll} \text{Operating temperature range} & T & = & 0 \text{ to } +60 \text{ °C} \\ \text{Ant term. impedance} & Z_{\text{Ant}} & = & 50 \Omega \\ \text{Port 1 term. impedance} & Z_{\text{Port 1}} = & 50 \Omega \\ \text{Port 2 term. impedance} & Z_{\text{Port 2}} = & 50 \Omega \end{array}$

			min.	typ.	max.	
Absolute attenuation		α				
	959,00 960,00 MHz		36	41	_	dB
	914,00 915,00 MHz		36	41	_	dB

Isolation between channel 1 and channel 2:

