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SAW Components Low-Loss Duplexer for Mobile Communication

B4006 959.5 MHz 914.5 MHz

Data Sheet

Features

- Compact RF duplexer for cordless telephone CT1
- $\bullet\,$ No matching network required for operation at $\,$ 50 $\Omega\,$
- Ceramic package for Surface Mounted Technology (SMT)

Terminals

• Ni, gold-plated



Dimensions in mm, approx. weight 0.07 g

Pin configuration

6	Ant
1	Port 1
3	Port 2
5, 7	Ant - ground
2	Port 1 - ground
4,8	Case / Port 2 - ground



Туре	Ordering code	Marking and Package according to	Packing according to
B4006	B39961-B4006-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 _{sta}	- 40/+ 85	°C
DC voltage	V _{DC}	3	V
Input power	P _{IN}	17	dBm

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SAW Components B4006 Low-Loss Duplexer for Mobile Communication 959.5 MHz 914.5 MHz

Data Sheet

Characteristics channel 1 (Port 1 - Ant)

		min.	typ.	max.	
Center frequency	f _c		959.5	_	MHz
Maximum insertion attenuation	α_{max}				
959.00 960.00 MHz		_	3.3	4.0	dB
Amplitude ripple (p-p)	Δα				
959.00 960.00 MHz		_	0.7	2.0	dB
Absolute attenuation	α				
450.00 850.00 MHz		50	61	_	dB
850.00 917.20 MHz		36	39	_	dB
917.20 938.60 MHz		32	35	_	dB
938.60 949.30 MHz		8	18	_	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	32	_	dB
1001.80 1002.80 MHz		30	36	_	dB
1015.00 1050.00 MHz		50	54	_	dB
1050.00 1350.00 MHz		43	48	_	dB
1350.00 1850.00 MHz		26	29	_	dB
1850.00 2000.00 MHz		21	26	_	dB



SAW Components B4006 Low-Loss Duplexer for Mobile Communication 959.5 MHz 914.5 MHz

Data Sheet

Characteristics channel 2 (Port 2 - Ant)

		min.	typ.	max.	
Center frequency	f _c	—	914.5	_	MHz
Maximum insertion attenuation	α_{max}				
914.00 915.00 MHz		_	3.0	4.0	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
914.00 915.00 MHz		_	0.7	2.0	dB
Absolute attenuation	α				
450.00 850.00 MHz		50	54	_	dB
850.00 872.20 MHz		45	53	_	dB
872.20 893.60 MHz		28	39	—	dB
893.60 904.30 MHz		6	18	_	dB
924.70 925.70 MHz		12	27	—	dB
925.70 935.40 MHz		20	30	_	dB
935.40 936.40 MHz		32	38	—	dB
936.40 956.80 MHz		27	32	_	dB
956.80 959.00 MHz		32	38	—	dB
959.00 1000.00 MHz		37	44	—	dB
1000.00 1350.00 MHz		42	47	_	dB
1350.00 1850.00 MHz		32	35	_	dB
1850.00 2000.00 MHz		27	32	_	dB



SAW Components	B4006
Low-Loss Duplexer for Mobile Communication	959.5 MHz
	914.5 MHz

Data Sheet

Frequency response channel 1 :



Frequency response channel 2 :



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OFW EM CP Jan 22, 1999



SAW Components	B4006
Low-Loss Duplexer for Mobile Communication	959.5 MHz
	914.5 MHz

Data Sheet

Frequency response channel 1 : (passband)



Frequency response channel 2 : (passband)



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OFW EM CP Jan 22, 1999



SAW Components Low-Loss Duplexer for Mobile Communication 959.5 MHz 914.5 MHz

Data Sheet

Frequency response channel 1 : (wideband)







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OFW EM CP Jan 22, 1999

B4006



SAW Components	B4006
Low-Loss Duplexer for Mobile Communication	959.5 MHz
	914.5 MHz

Data Sheet

Isolation between channel 1 and channel 2

Operating temperature range	T =	0 to +60 °C
Ant term. impedance	Z _{Ant} =	50 Ω
Port 1 term. impedance	Z _{Port 1} =	50 Ω
Port 2 term. impedance	Z _{Port 2} =	50 Ω

		min.	typ.	max.	
Absolute attenuation	α				
959,00 960,00 MHz		36	41	—	dB
914,00 915,00 MHz		39	51	—	dB

Isolation between channel 1 and channel 2 :



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OFW EM CP Jan 22, 1999