



SAW Components

SAW Rx filter

TD LTE Band 40

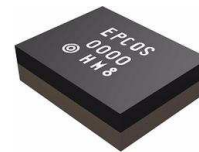
Series/Type:	B8826
Ordering code:	B39242B8826P810
Date:	November 06, 2014
Version:	2.0

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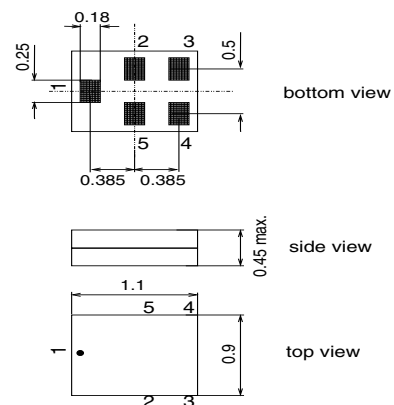
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Application

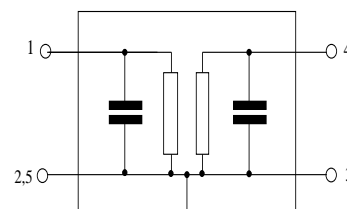
- Low-loss RF filter for mobile telephone TD LTE Band 40 system, receive path (Rx)
- Suitable for diversity applications
- Impedance 50 ohm input and output
- Unbalanced /unbalanced operation
- Usable passband 100 MHz


Features

- Package size 1.1 x 0.9 mm²
- Maximum package height 0.45 mm
- RoHS compatible
- Approx. weight 0.001g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- **Moisture Sensitive Level 3**


Pin configuration

- 1 Input, unbalanced
- 4 Output, unbalanced
- 2,3,5 To be grounded



Please read *cautions and warnings and important notes* at the end of this document.

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Characteristics

Temperature range for specification: $T = -30\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega \parallel 6.0\text{nH}$
 Terminating load impedance: $Z_L = 50\ \Omega \parallel 6.0\text{nH}$

				min.	typ. @ 25°C	max.	
Center frequency		f_C		—	2350.0	—	MHz
Maximum insertion attenuation	2300.0 ... 2400.0	MHz	α_{\max}	—	2.1	3.7	dB
Amplitude ripple (p-p)	2300.0 ... 2400.0	MHz	$\Delta\alpha$	—	1.0	2.6	dB
Input VSWR	2300.0 ... 2400.0	MHz		—	1.9	2.4	
Output VSWR	2300.0 ... 2400.0	MHz		—	1.9	2.4	
Attenuation			α				
	10.0 ... 1559.0	MHz		40	45	—	dB
	1559.0 ... 1606.0	MHz		40	46	—	dB
	1606.0 ... 2125.0	MHz		40	44	—	dB
	2125.0 ... 2215.0	MHz		30	35	—	dB
	2215.0 ... 2240.0	MHz		30	36	—	dB
	2430.0 ... 2440.0	MHz		12	38	—	dB
	2440.0 ... 2450.0	MHz		32	37	—	dB
	2450.0 ... 2500.0	MHz		32	36	—	dB
	2500.0 ... 2570.0	MHz		35	40	—	dB
	2496.0 ... 2690.0	MHz		35	40	—	dB
	2690.0 ... 4600.0	MHz		26	32	—	dB
	4600.0 ... 4800.0	MHz		26	31	—	dB
	4800.0 ... 4900.0	MHz		24	30	—	dB
	4900.0 ... 5950.0	MHz		24	27	—	dB
	5950.0 ... 6900.0	MHz		20	25	—	dB
	6900.0 ... 7200.0	MHz		20	24	—	dB

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Maximum ratings

Storage temperature range	T_{stg}	-40/+85 ¹⁾	°C	Machine Model
DC voltage	V_{DC}	5 ²⁾	V	
ESD voltage	V_{ESD}	75 ³⁾	V	
Input Power at 2300.0-2400.0 MHz	P_{IN}	15	dBm	Continuous wave for 2000h @ 55°C

1) extended upperlimit: 168h@125°C acc. to IEC 60068-2-2 Bb

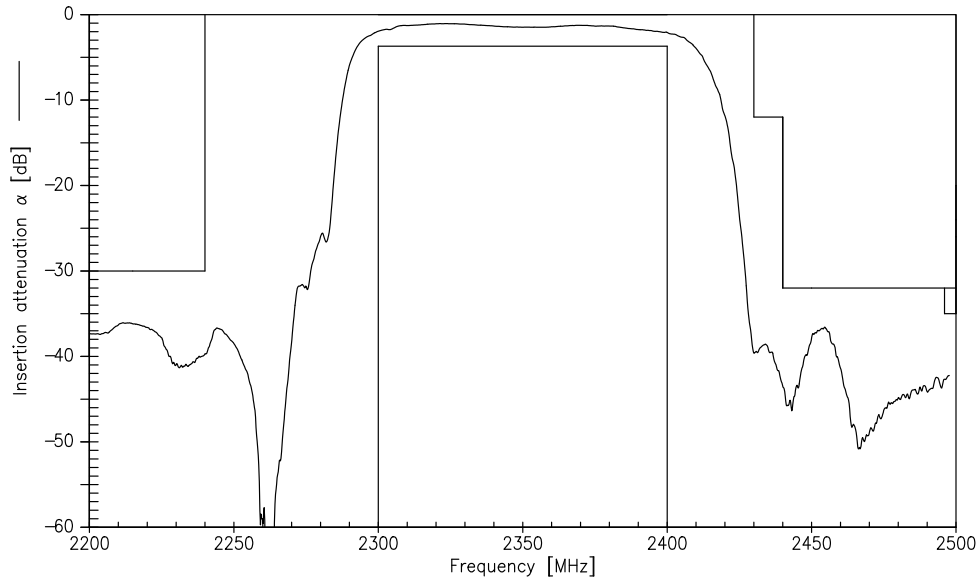
2) 168h Damp Heat Steady State acc. to IEC 60068-2-67 Cy

3) acc. to JESD22-A115B (MM - Machine Model), 10 negative & 10 positive pulses

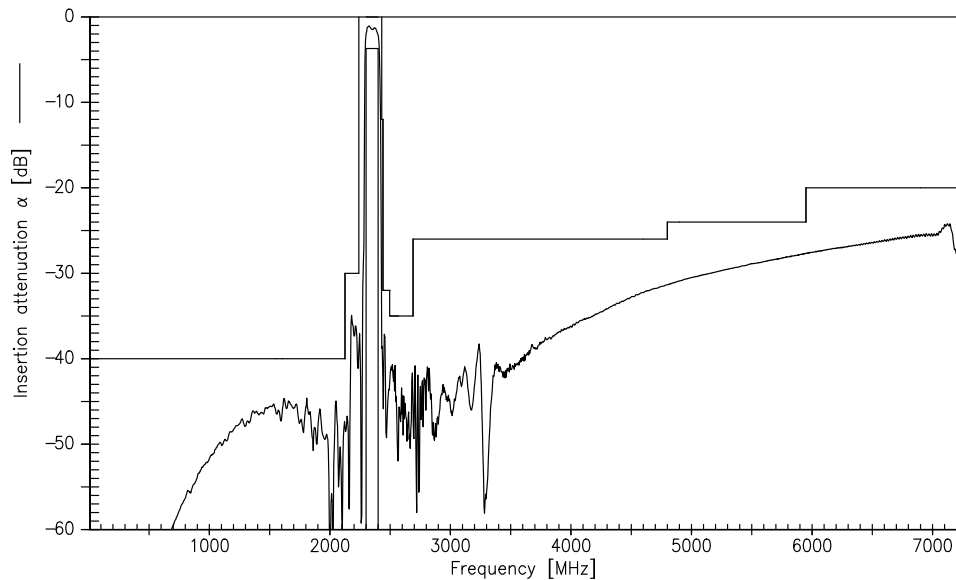
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Transfer function (narrowband)



Transfer function (wideband)



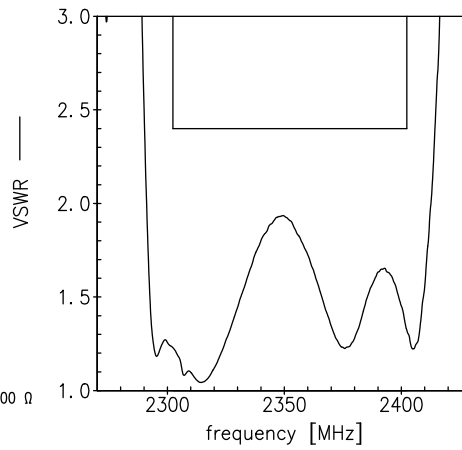
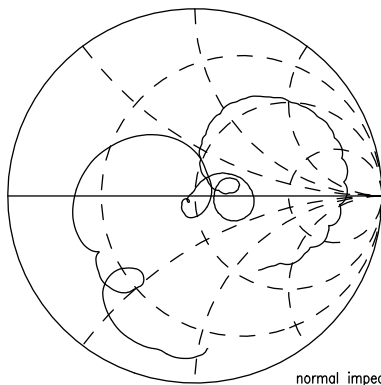
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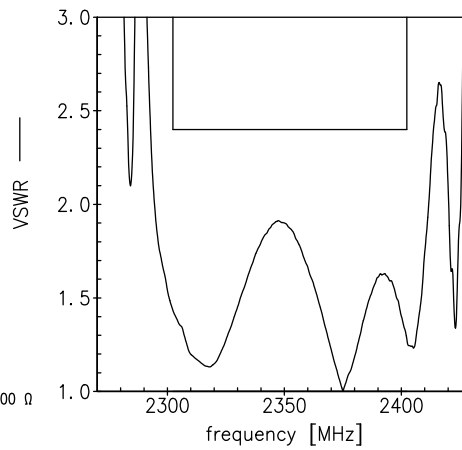
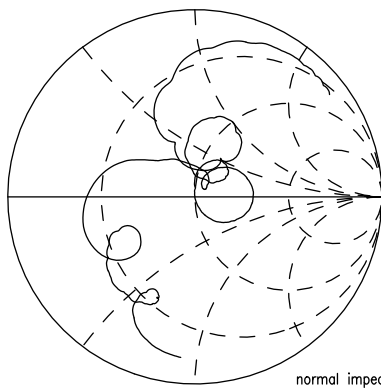
SMD

Smith charts

S₁₁ function



S₂₂ function



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References

Type	B8826
Ordering code	B39242B8826P810
Marking and package	C61157-A8-A56
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B8826_NB_UN.s2p, B8826_WB_UN.s2p see file header for port/pin assignment table
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8 th , 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm for a large variety of matching coils.

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

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Please read *cautions and warnings and important notes* at the end of this document.

7 November 06, 2014

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