



SAW Components

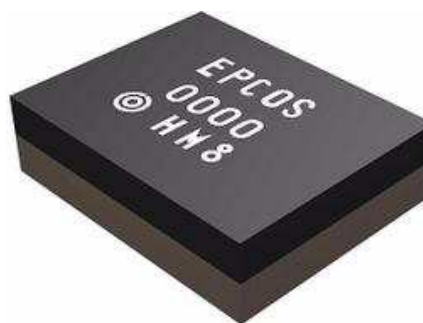
BAW TD-LTE Band 40 Tx post PA Filter Datasheet

Series/type:	B8845
Ordering code:	B39232B8845P810
Date:	January 28, 2015
Version:	2.0

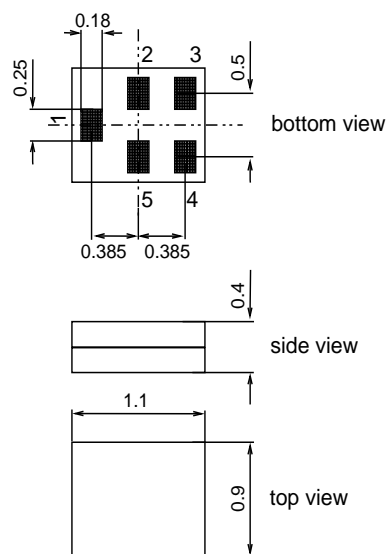
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Datasheet
SMD
Application

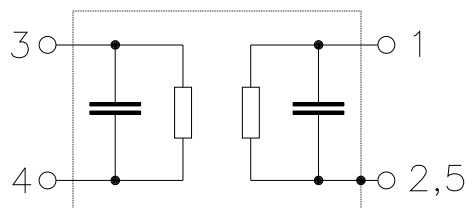
- Low-loss BAW RF single filter for TD-LTE Band 40 Tx post PA
- Usable passband : 100.0 MHz
- Unbalanced to unbalanced operation
- Good insertion attenuation
- High out of band selectivity
- Filter impedance 50 Ω


Features

- Package size 1.1 x 0.9 x 0.4 mm³
- RoHS compatible
- Approximate weight 0.003 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- **Moisture Sensitivity Level 3 (MSL 3)**


Pin configuration

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



Datasheet

Characteristics of Filter

Temperature range for specification: $T = -30\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$ and 4.7 nH shunt inductor
 Terminating load impedance: $Z_L = 50\ \Omega$ and 3.9 nH shunt inductor

Characteristics		B8845			
		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	2350.0	—	MHz
Maximum insertion attenuation	α_{max}				
2300.0 ... 2400.0 MHz		—	2.1	3.2	dB
2300.0 ... 2400.0 MHz ¹⁾		—	1.2	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
2300.0 ... 2400.0 MHz		—	1.2	2.3	dB
VSWR (Input and Output)					
2300.0 ... 2400.0 MHz		—	1.7	2.2	
Attenuation	α				
10.0 ... 880.0 MHz		35	39	—	dB
880.0 ... 960.0 MHz		32	37	—	dB
960.0 ... 1150.0 MHz		29	32	—	dB
1150.0 ... 1200.0 MHz		29	31	—	dB
1200.0 ... 1559.0 MHz		27	29	—	dB
1559.0 ... 1606.0 MHz		27	29	—	dB
1606.0 ... 1680.0 MHz		27	30	—	dB
1710.0 ... 1785.0 MHz		28	31	—	dB
1805.0 ... 1830.0 MHz		30	33	—	dB
1830.0 ... 1850.0 MHz		31	34	—	dB
1880.0 ... 1920.0 MHz		32	36	—	dB
2010.0 ... 2025.0 MHz		39	44	—	dB
2110.0 ... 2170.0 MHz		30	33	—	dB
WiFi ch4 2418.0 ... 2436.0 MHz ²⁾		13	39	—	dB
WiFi ch5 2423.0 ... 2441.0 MHz ²⁾		25	50	—	dB
WiFi ch6 2428.0 ... 2446.0 MHz ²⁾		45	49	—	dB
WiFi ch7 2433.0 ... 2451.0 MHz ²⁾		40	47	—	dB
WiFi ch8-13 2438.0 ... 2481.0 MHz ²⁾		40	45	—	dB
2481.0 ... 2500.0 MHz		40	46	—	dB
4600.0 ... 4800.0 MHz		23	27	—	dB
4900.0 ... 5950.0 MHz		10	14	—	dB
6900.0 ... 7200.0 MHz		2	5	—	dB

1) Averaged over full band 40 (100 MHz)

2) Averaged over WLAN channels (18 MHz)

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Maximum ratings

Storage temperature range	T _{stg}	-40/+85 ¹⁾	°C	
DC voltage	V _{DC}	5 ²⁾	V	
ESD voltage	V _{ESD}	50 ³⁾	V	machine model
Input power at 2300.0 - 2400.0 MHz	P _{IN}	29	dBm	source/load impedance 50Ω/50Ω LTE TDD 5MHz Uplink signal 55°C, 5000 hours

1) extended upperlimit : 90°C

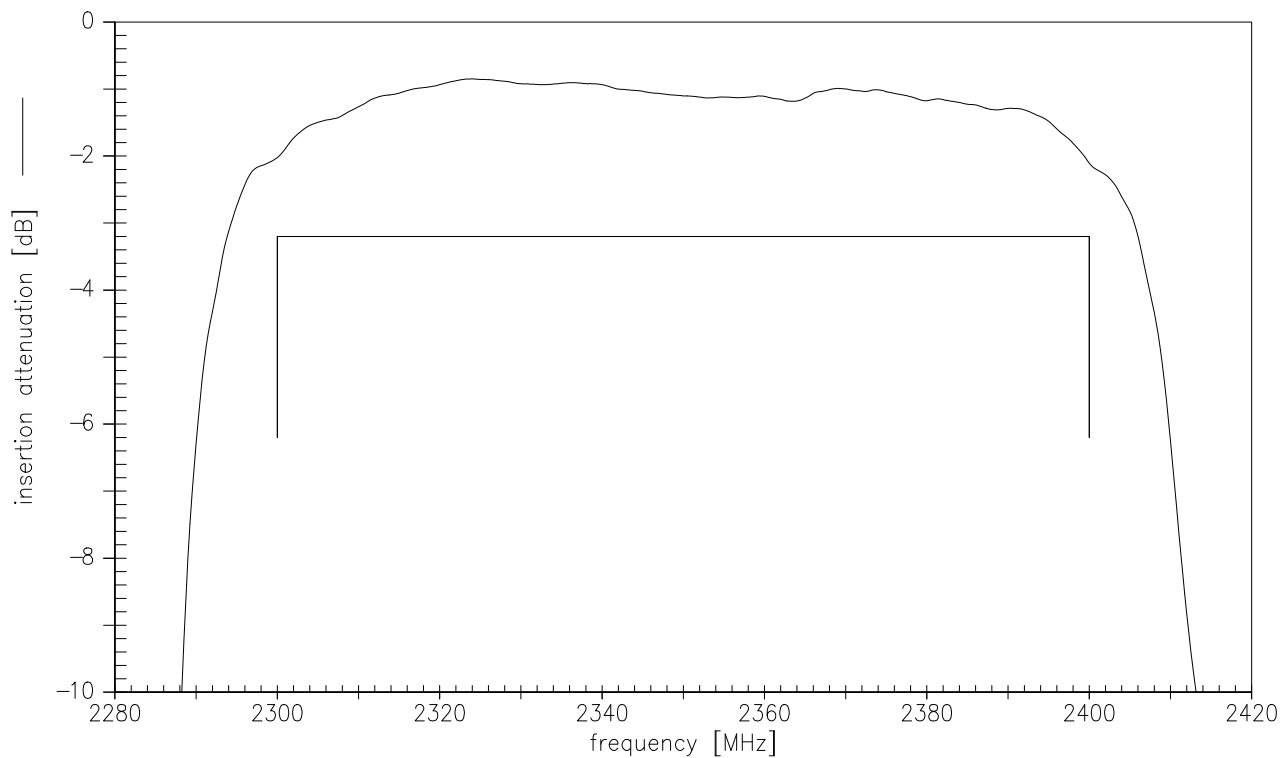
2) 168h Damp Heat Steady State acc. to IEC 60068-2-67 Cy

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

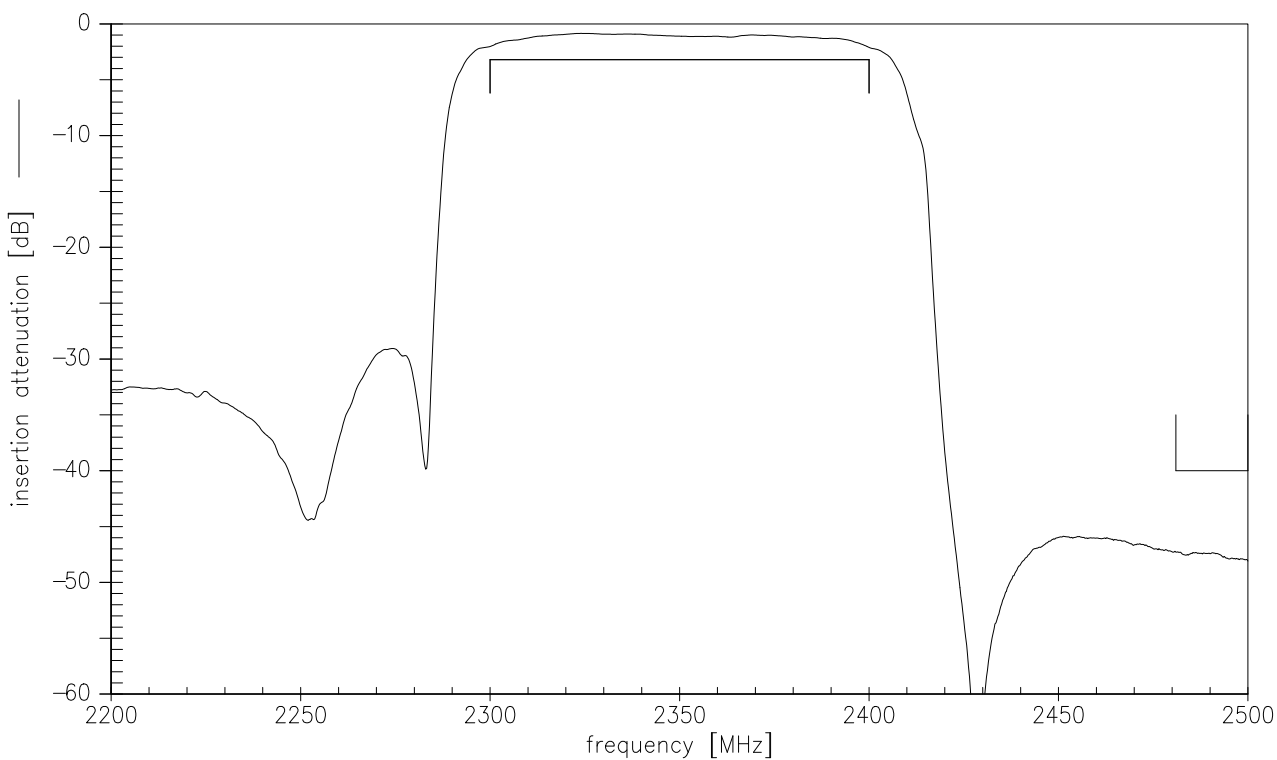
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Transfer function



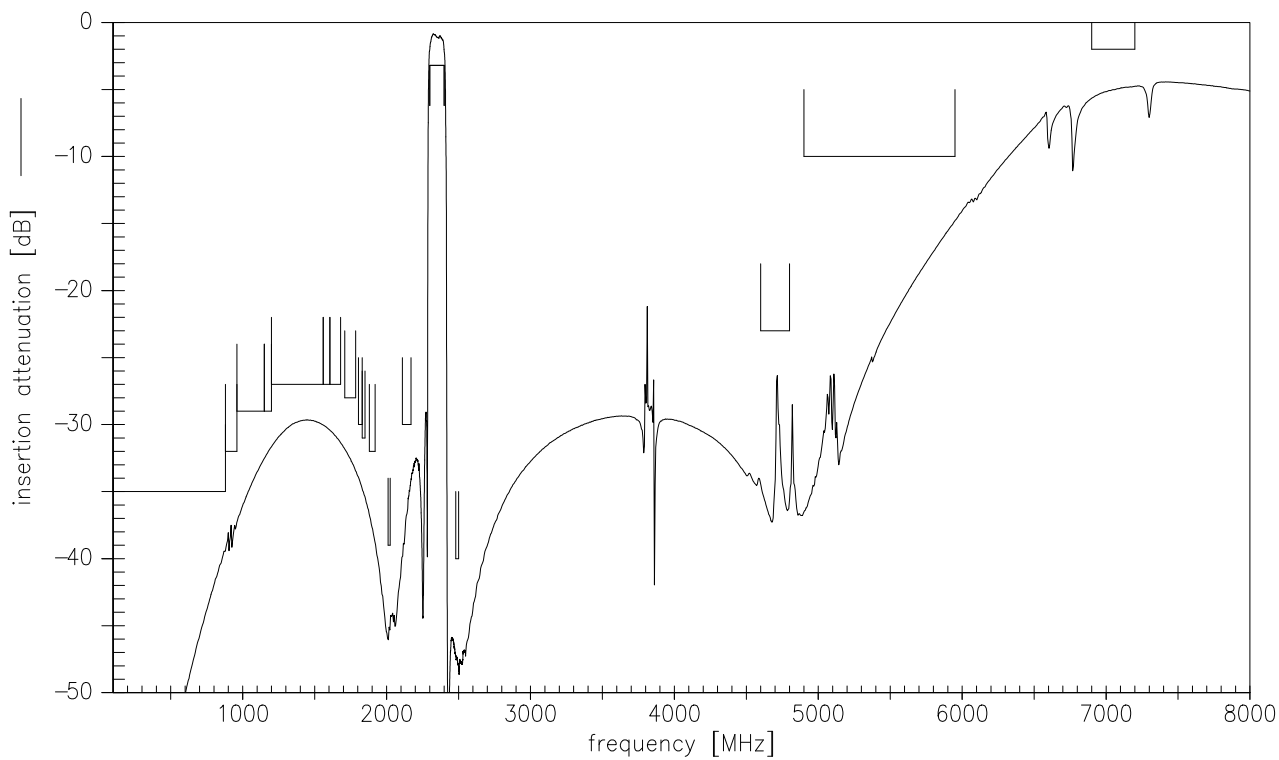
Transfer function



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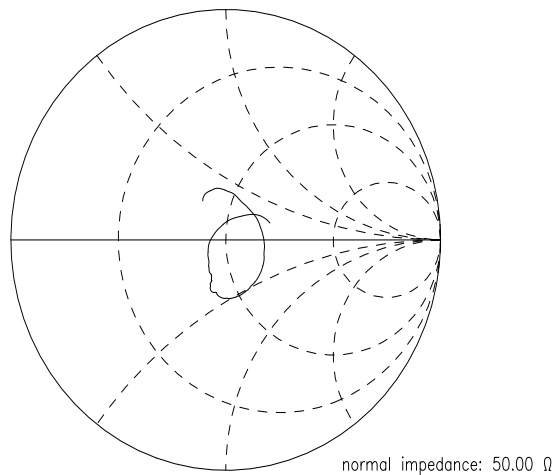
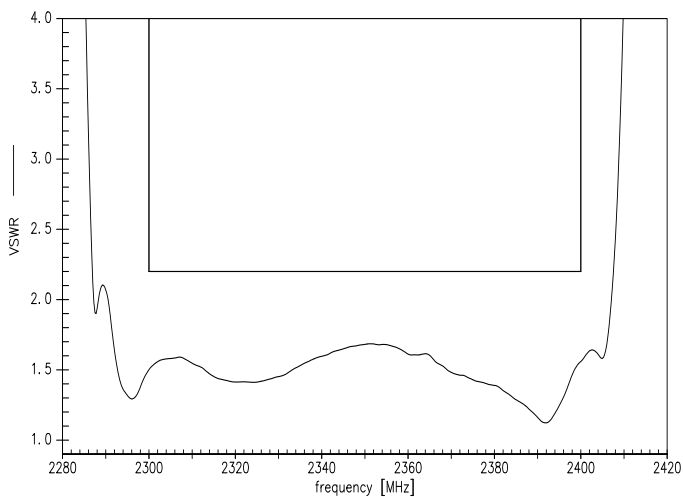
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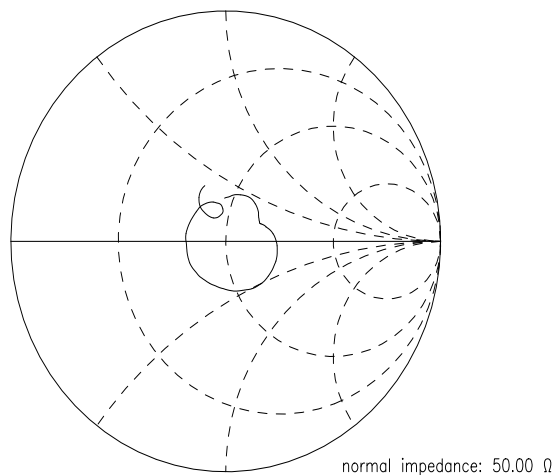
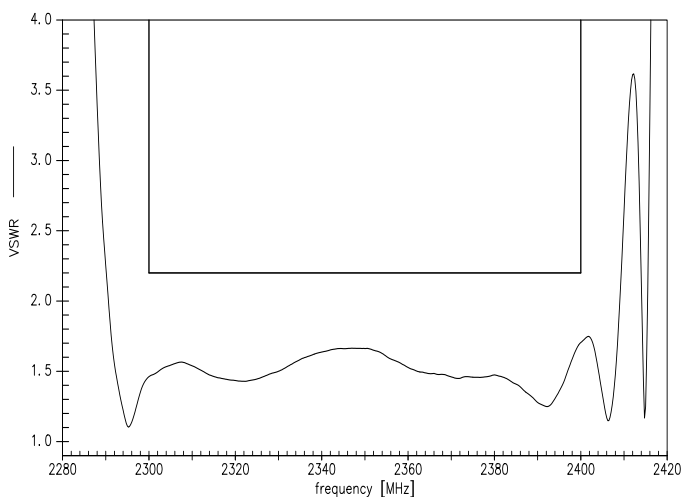
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S11 VSWR



S22 VSWR



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References

Type	B8845
Ordering code	B39232B8845P810
Marking and package	C61157-A8-A180
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B8845_HD_WB.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.
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