



# SAW Components

## SAW Tx Filter

Narrow Band 41 Post PA

<b>Series/type:</b>	<b>B8325</b>
<b>Ordering code:</b>	<b>B39262B8325P810</b>
<b>Date:</b>	<b>May 19, 2014</b>
<b>Version:</b>	<b>2.0</b>

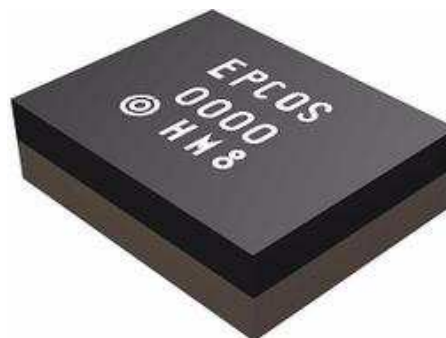
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Data sheet



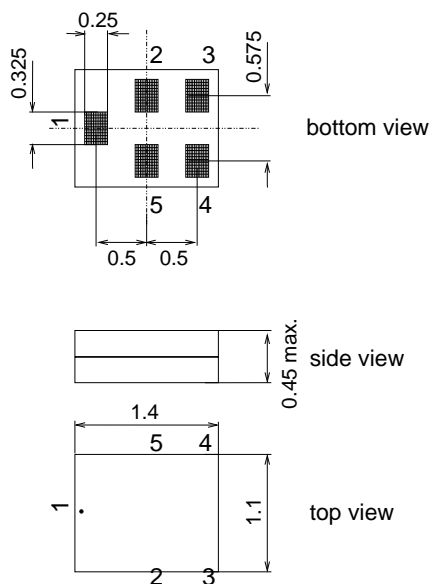
Application

- Narrow Band 41 Post PA Tx filter
- Low-loss RF filter for mobile telephone Narrow Band 41 systems
- Usable passband 100 MHz
- 50 Ω / 50 Ω Unbalanced to unbalanced operation
- Low insertion attenuation



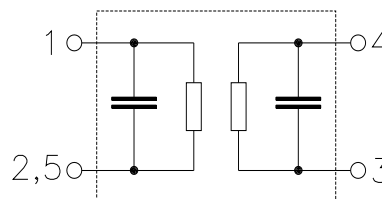
Features

- Package size 1.4 x 1.1 mm<sup>2</sup>
- Max. package height 0.45 mm
- RoHS compatible
- Approx. weight 0.003 g
- Package for **Surface Mount Technology (SMT)**
- Ni, Au-plated terminals
- **Electrostatic Sensitive Device (ESD)**
- **Moisture Sensitivity Level 3**



Pin configuration

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



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**Characteristics**

Temperature range for specification:	T	=	-30 °C to +85 °C
Terminating source impedance:	Z <sub>S</sub>	=	50 Ω    3.9 nH
Terminating load impedance:	Z <sub>L</sub>	=	50 Ω    5.1 nH

Characterisitcs		min.	typ. @ 25 °C	max.
<b>Center frequency</b>	f <sub>C</sub>	—	2605.0	—
<b>Maximum insertion attenuation</b>	α <sub>max</sub>			
2555.0 ... 2655.0 MHz		—	2.0	3.0
2555.0 ... 2575.0 MHz		—	1.5	3.0
2575.0 ... 2635.0 MHz		—	1.5	2.5
2635.0 ... 2655.0 MHz		—	2.0	3.0
<b>Amplitude ripple (p-p)</b>	Δα			
2555.0 ... 2655.0 MHz		—	1.1	2.1
<b>Amplitude ripple over any 5MHz channel</b>	Δα <sub>ch</sub>			
2555.0 ... 2655.0 MHz		—	0.3	0.6
<b>Input VSWR</b>				
2555.0 ... 2655.0 MHz		—	1.6	2.0
<b>Output VSWR</b>				
2555.0 ... 2655.0 MHz		—	1.5	2.0



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Characteristics

Temperature range for specification: T = -30 °C to +85 °C  
 Terminating source impedance: Z<sub>S</sub> = 50 Ω || 3.9 nH  
 Terminating load impedance: Z<sub>L</sub> = 50 Ω || 5.1 nH

Characteristics	min.	typ. @ 25 °C	max.
<b>Attenuation</b> α			
10.0 ... 699.0 MHz	40	51	—
699.0 ... 916.0 MHz	37	44	—
916.0 ... 925.0 MHz	37	44	—
925.0 ... 960.0 MHz	37	43	—
960.0 ... 1440.0 MHz	28	32	—
1440.0 ... 1565.0 MHz	28	31	—
1565.0 ... 1615.0 MHz	28	31	—
1615.0 ... 1805.0 MHz	28	31	—
1805.0 ... 1830.0 MHz	28	31	—
1830.0 ... 2120.0 MHz	28	31	—
2120.0 ... 2400.0 MHz	28	32	—
2400.0 ... 2490.0 MHz	40	43	—
2490.0 ... 2510.0 MHz	30	42	—
2775.0 ... 4990.0 MHz	32	37	—
4990.0 ... 5900.0 MHz	28	32	—
6000.0 ... 6900.0 MHz	25	29	—
7000.0 ... 7990.0 MHz	20	25	—



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Maximum ratings

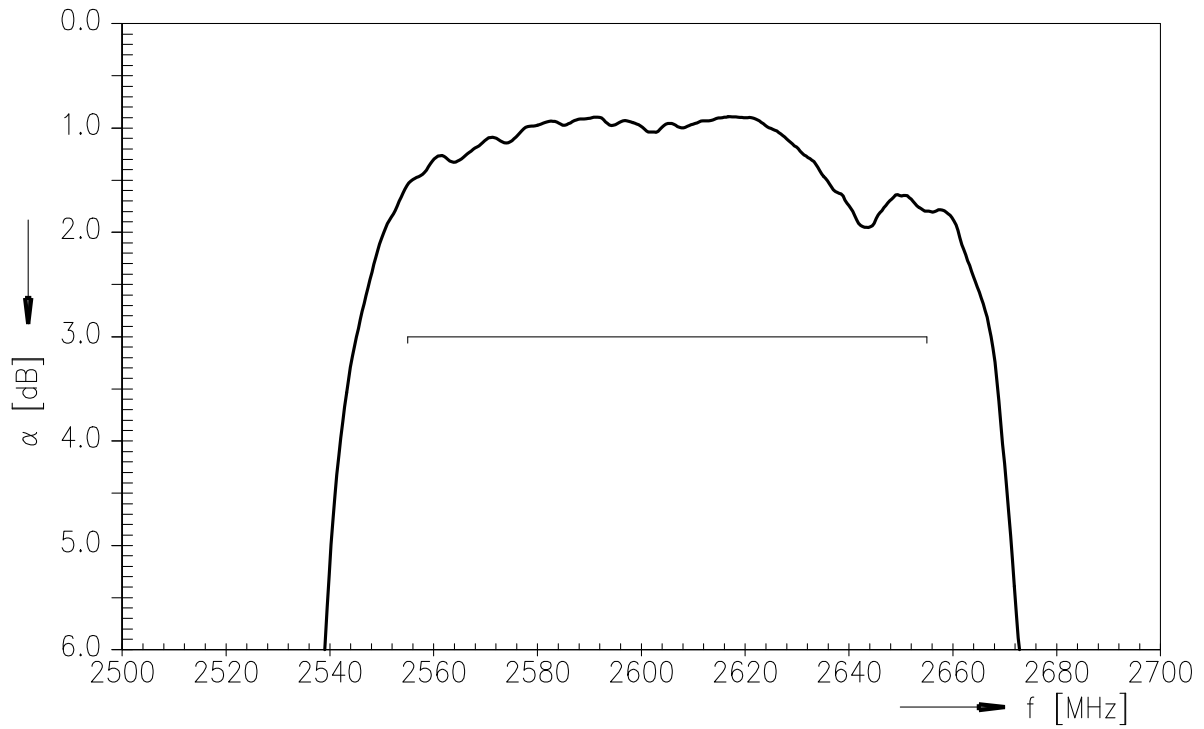
Storage temperature range	T <sub>stg</sub>	-40/+85	°C	
DC voltage	V <sub>DC</sub>	5 <sup>1)</sup>	V	
ESD voltage	V <sub>ESD</sub>	175 <sup>2)</sup>	V	Machine Model
		200 <sup>3)</sup>	V	Human Body Model
		600 <sup>4)</sup>	V	Charged Device Model
Input power	P <sub>IN</sub>			source and load impedance 50 Ω
		2555.0 ... 2655.0MHz	29	dBm
elsewhere	10	dBm		

- 1) 168h Damp Heat Steady State acc. to IEC 60068-2-67 Cy
- 2) acc. to JESD22-A115B (MM - Machine Model), 10 negative & 10 positive pulses.
- 3) acc. to JESD22-A114F (HBM - Human Body Model) , 1 negative & 1 positive pulses.
- 4) acc. to JESD22-C101C (CDM - Field Induced Charged Device Model) , 3 negative & 3 positive pulses.

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SMD

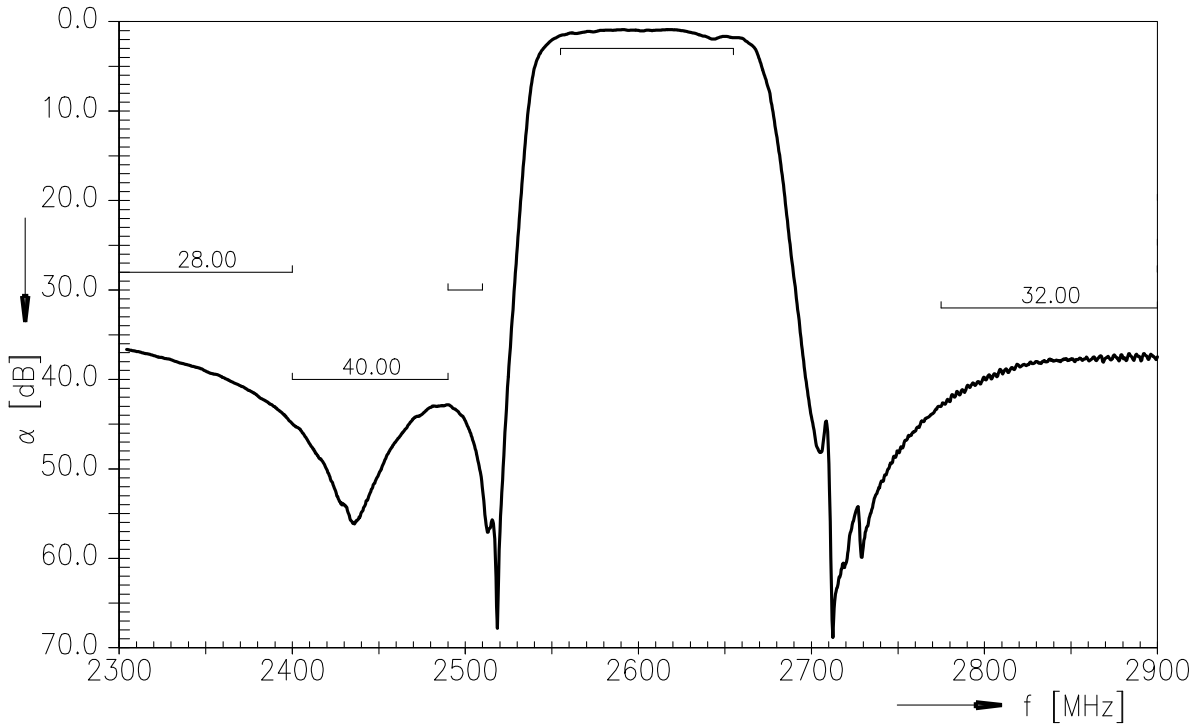
Frequency response (passband)



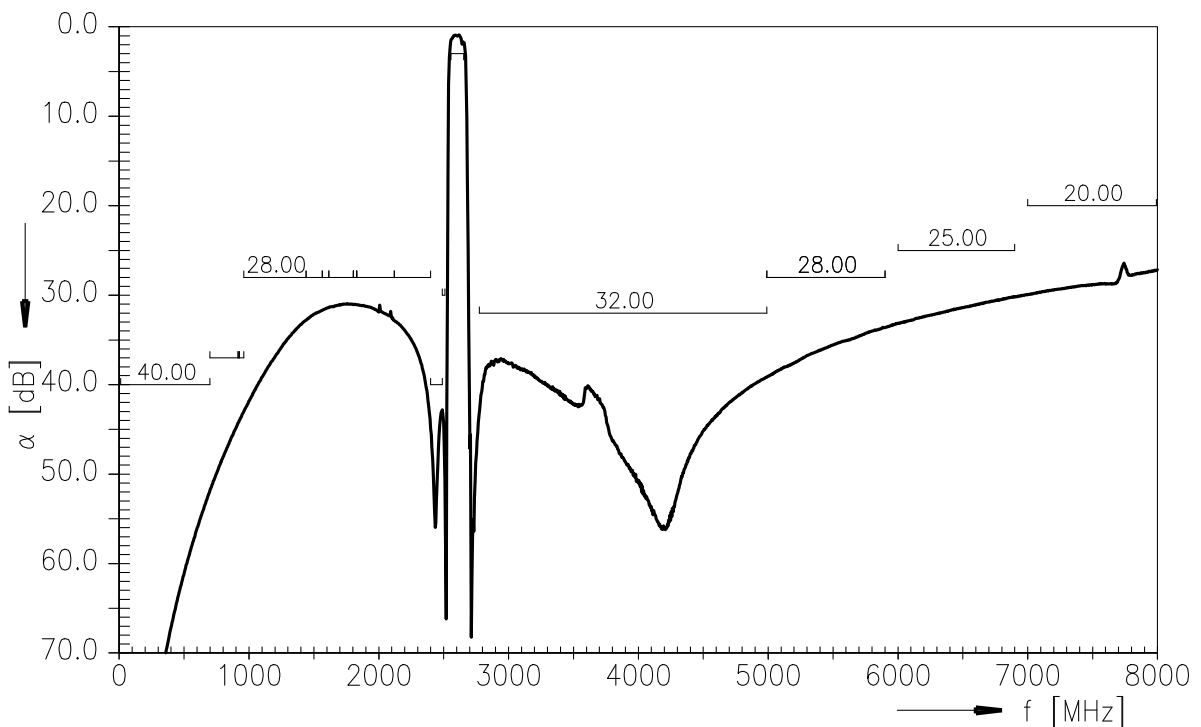
Data sheet

SMD

Frequency response (narrowband)



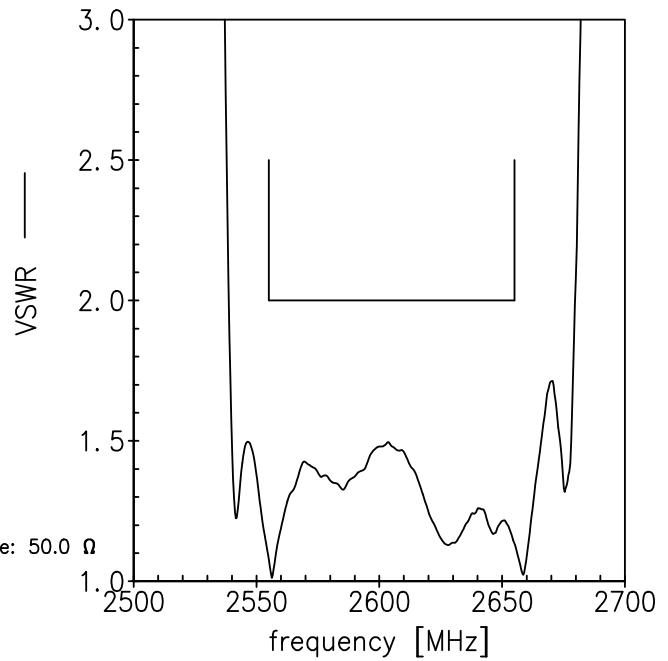
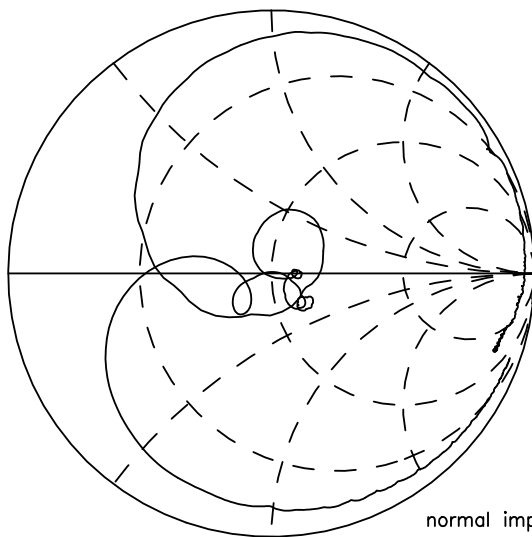
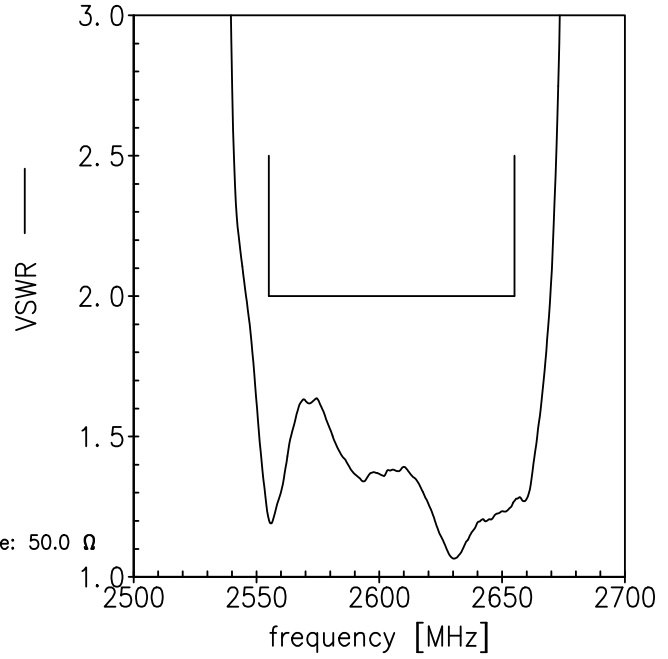
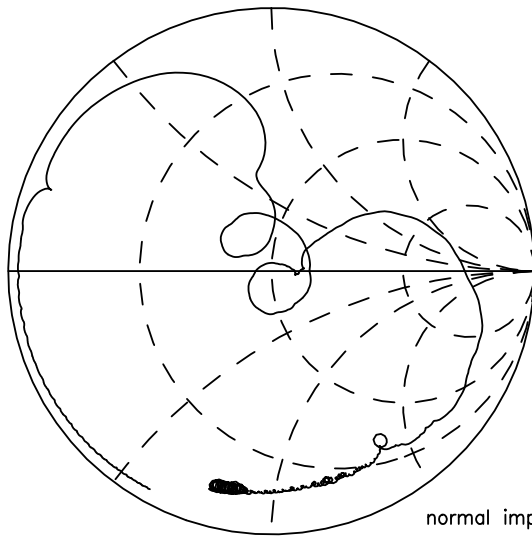
Frequency response (wideband)



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**SMD**

Smith Chart





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References

<b>Type</b>	B8325
<b>Ordering code</b>	B39262B8325P810
<b>Marking and package</b>	C61157-A8-A63
<b>Packaging</b>	F61074-V8237-Z000
<b>Date codes</b>	L_1126
<b>S-parameters</b>	B8325_NB_UN.s2p, B8325_WB_UN.s2p See file header for pin/port assignment.
<b>Soldering profile</b>	S_6001
<b>RoHS compatible</b>	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 <sup>th</sup> , 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.
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