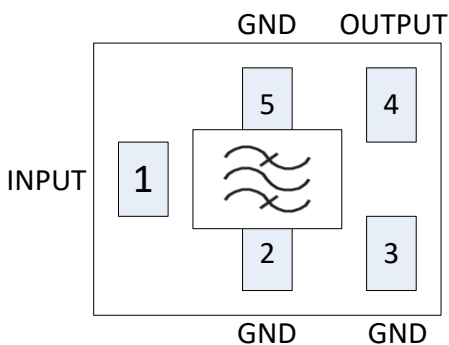


Description

HSM6524A is designed to enable concurrent operation of Wireless LAN and Bluetooth applications which coexist with other wireless standards. HSM6524A is designed with Surface Acoustic Wave (SAW) technology. Typical insertion loss in the pass band is less than 1.7 dB. Typical rejection at LTE Band 40 is more than 40 dB, at Band 7 and Band 41 is more than 30 dB.

Functional Block Diagram

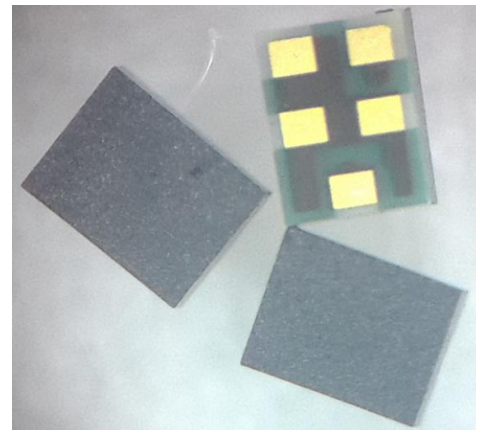


Pin Connections

Pin No.	Function
1	Input
4	Output
2, 3, 5	Ground

Features

- 50Ω Input/Output
- Package for Surface Mount Technology (SMT)
- Miniature Size: 1.4 mm x 1.1 mm x 0.6 mm
- Fast roll-off from WiFi to near LTE bands
- High rejection at LTE bands
- Ni, Au-plated terminals
- Excellent ESD protection ability
- Moisture Sensitivity Level 3



Applications

802.11 b/g/n WLAN or Bluetooth datacom in handsets, mobile and portable communication devices.

HSM6524A
WiFi Filter (2402.5 – 2481.5 MHz)



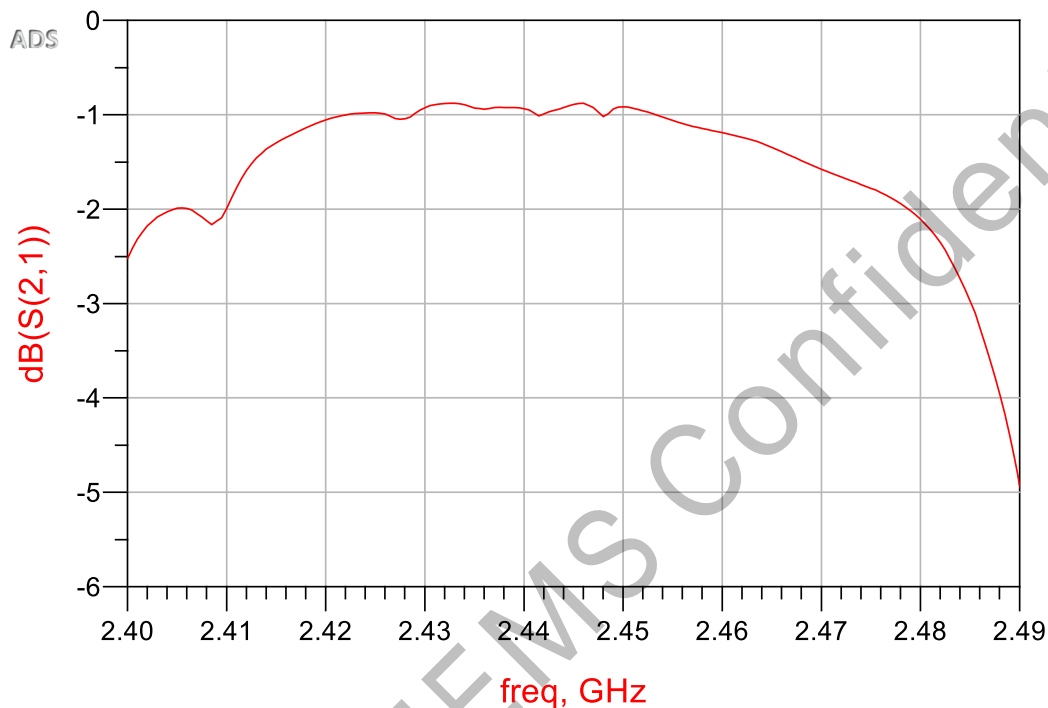
Electrical Specifications, $Z_0 = 50\Omega$, $T_c = -30^\circ\text{C}$ to 85°C

Parameter	Min	Typ	Max	Unit
*Insertion Loss (2402.5-2421.5MHz)(Ch.1)	\	1.7	2.4	dB
*Insertion Loss (2407.5-2426.5 MHz)(Ch.2)	\	1.3	2.0	dB
*Insertion Loss (2412.5-2471.5 MHz)(Ch.3-11)	\	1.1	1.6	dB
*Insertion Loss (2457.5-2476.5 MHz)(Ch.12)	\	1.4	2.0	dB
*Insertion Loss (2462.5-2481.5 MHz)(Ch.13)	\	1.7	2.5	dB
Return Loss (2402.5-2481.5 MHz) (Ch.1-13)	10	15	\	dB
Absolute Attenuation				
800 - 2000 MHz	28	30	\	dB
2000 - 2170 MHz	28	30	\	dB
2300 - 2370 MHz	38	40	\	dB
2500 - 2570 MHz	30	35	\	dB
2570 - 2690 MHz	30	32	\	dB
4800 - 6000 MHz	40	45	\	dB

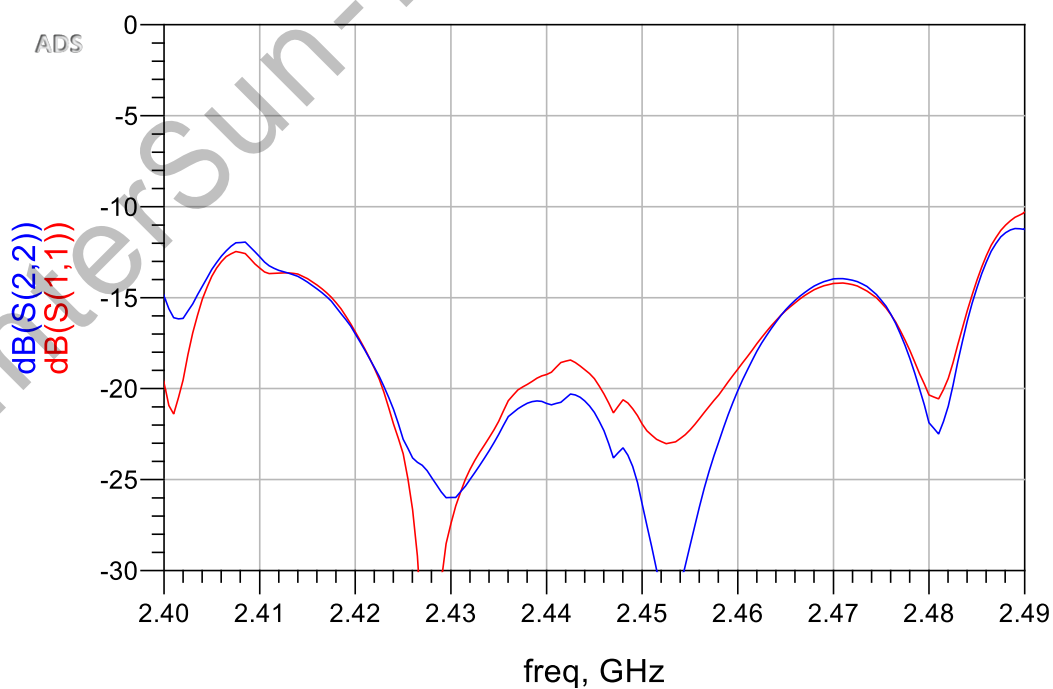
*Typical data is the average value over the indicated channel.

Typical Performance at Tc = 25°C

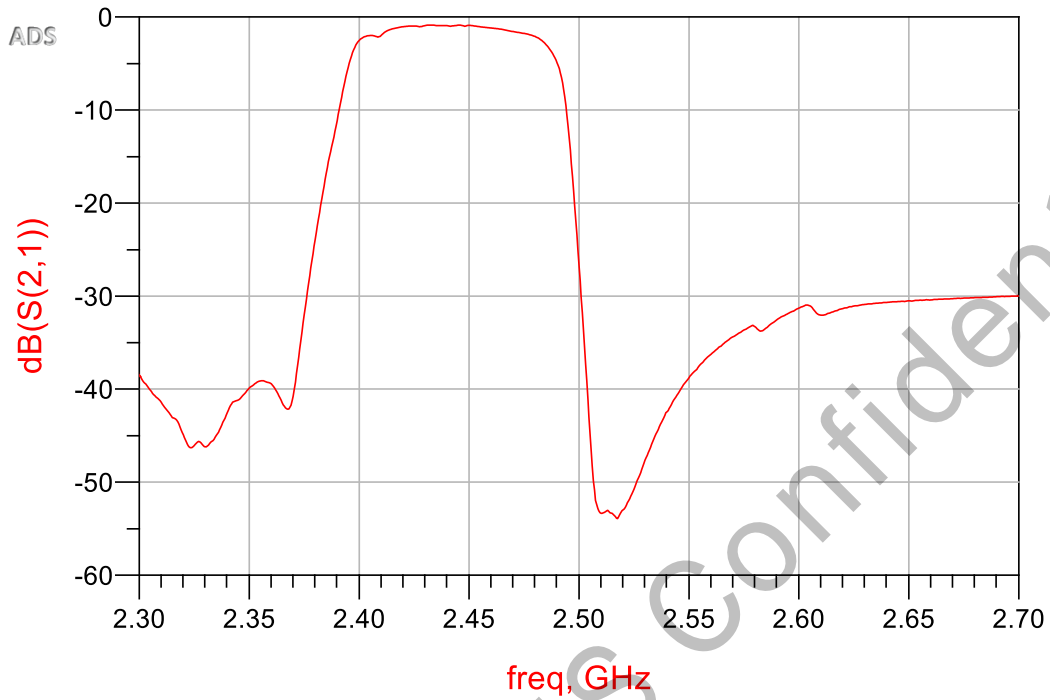
Pass Band Response (S21)



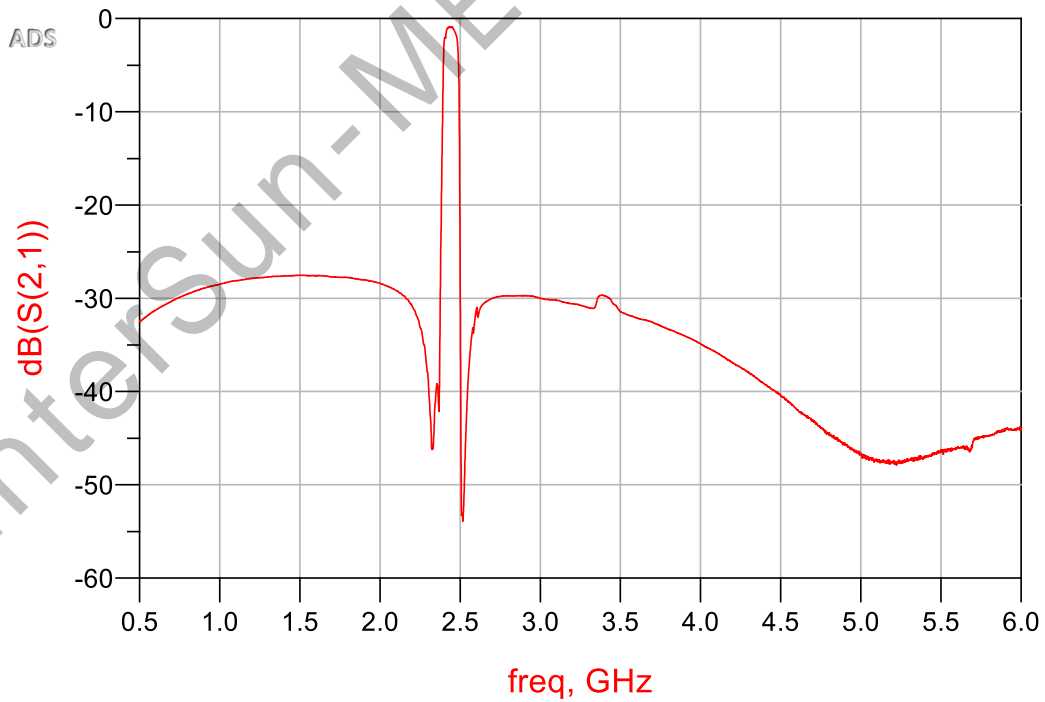
Pass Band Response (S11&S22)



Rejection Band Response (Rejection@B40、B7&B41)



Wide Band Response

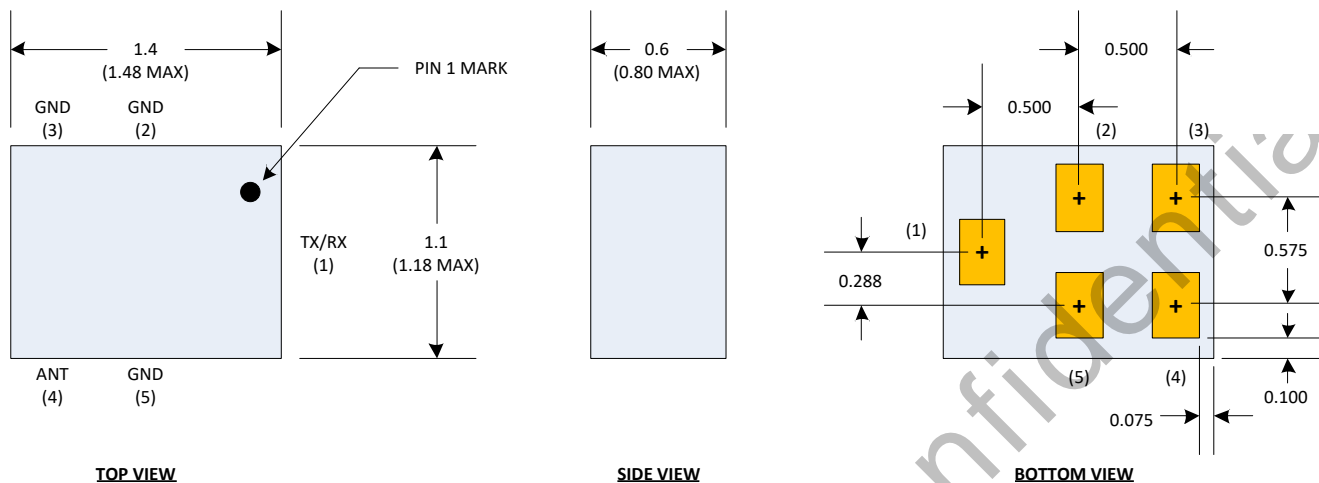


HSM6524A

WiFi Filter (2402.5 – 2481.5 MHz)

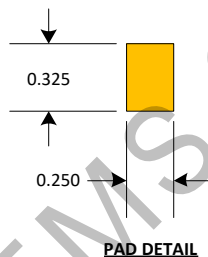


Package Outline Drawing



Notes:

1. Dimensions in millimeters
2. Tolerance: X.XX ±0.05
X.XXX ±0.025
3. Dimensions nominal unless otherwise noted
4. Contact areas gold plated



Pin Connections

- 1 Port 1 (TX/RX)
- 2, 3, 5 GND
- 4 Port 2 (ANT)

Test Circuit

