ΥΛΤΕΙΙΛΝ

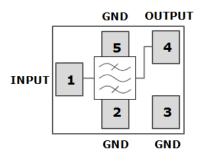
YTLP2416E Wi-Fi Filter for LTE (2402.5~2481.5MHz)

Description

YTLP2416E is a Wi-Fi band filter, which is designed with Film Bulk Acoustic Resonator (FBAR) technology. The product can provide low insertion loss and steep skirt to enables coexistence of Wi-Fi and LTE signals within the same device or in close proximity to one another. The typical insertion loss in the pass band is less than 1.4dB. Typical rejection at the LTE Band 38 and LTE Band 7 and 41 is more than 42dB, at the LTE Band 40 is more than 41dB.

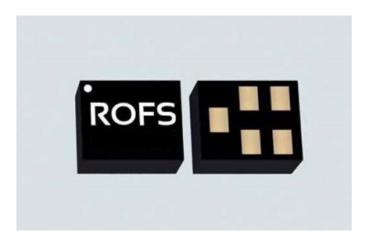
For the chip package, the YTLP2416E uses advanced module packing techniques to achieve the industry standard 1.1x0.9x0.6mm footprint, include bumping and flip chip.

Functional Block Diagram



Pin Connection

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



Features

- For Wi-Fi LTE coexistence application
- Plastic Chip Scale Package(CSP)
- Miniature Size: 1.1mm x 0.9 mm x 0.6 mm
- Fast Roll-off from Wi-Fi to near LTE Bands
- High Rejection at LTE bands.
- Low Temperature Coefficient of Frequency
- Storage temperature range: -40 to +150 °C
- Excellent ESD protection ability: Class 1C
- Moisture Sensitivity : MSL3

Applications

- Wi-Fi bandpass filter enables the coexistence of (LTE/TD-LTE) & Wi-Fi
- ISM band applications such as Smart Meters
- Portable Hotspots and Mobile Routers

Environmental

- Full implement with RoHS compliant
- Lead Free (Pb free)



ΥΛΤΕΓΙΛΝ

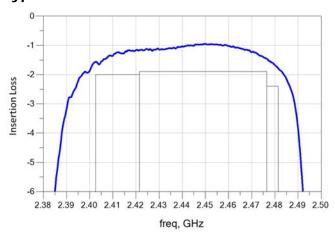
Parameter (Operable Temperature: -25 to +85 $^\circ$)	Min	Typ ⁽¹⁾	Max	Unit
Insertion Loss(2402.5 ~ 2421.5 MHz)	١	1.3	1.9	dB
Insertion Loss(2407.5 ~ 2476.5 MHz)	١	1.1	1.7	dB
Insertion Loss(2462.5 ~ 2481.5 MHz)	١	1.4	2.2	dB
Ripple (2402.5 ~ 2421.5 MHz)	١	0.6	1.0	dB
Ripple (2407.5 ~ 2476.5 MHz)	١	0.6	1.0	dB
Ripple (2462.5 ~ 2481.5 MHz)	١	0.8	1.2	dB
VSWR (2402.5 ~ 2481.5 MHz)	١	1.2	1.7	١
Absolute Attenuation	\			
800 ~ 2000 MHz	32	37	١	dB
2000 ~ 2170 MHz	22	35	١	dB
2300 ~ 2370 MHz	45	53	١	dB
2370 ~ 2375 MHz	45	50	١	dB
2375 ~ 2380 MHz	22	41	١	dB
2500 ~ 2505 MHz	50	61	١	dB
2505 ~ 2570 MHz	46	60	\	dB
2570 ~ 2620 MHz	39	45	\	dB
2620 ~ 2690 MHz	38	42	\	dB
4800 ~ 5805 MHz	40	43	\	dB
RF Input Power ⁽²⁾ (2402.5 ~ 2481.5 MHz)	١	١	28	dBm

(1) **Typ Data** is the integrated value of the linear S-parameter over indicated band.

(2) Input power applied for a minimum of 5,000 hrs at 55°C in the specified frequency band

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Typical Performance at Tc=25°C





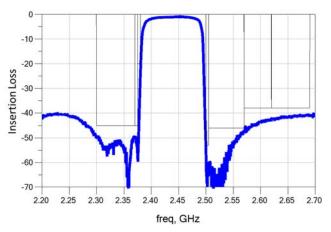
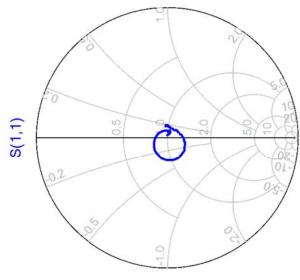
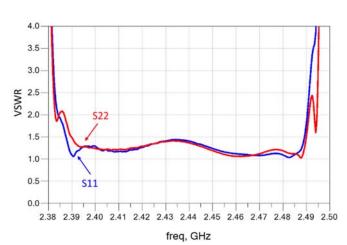


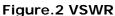
Figure.3 Narrowband Insertion Loss



freq (2.402GHz to 2.482GHz)







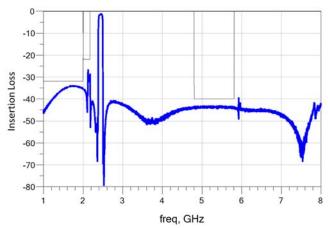
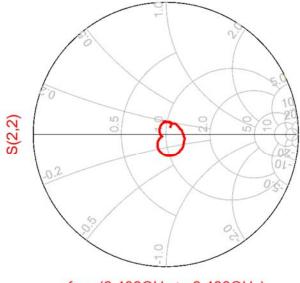


Figure.4 Wideband Insertion Loss



freq (2.402GHz to 2.482GHz)



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YTLP2416E Wi-Fi Filter for LTE (2402.5~2481.5MHz)

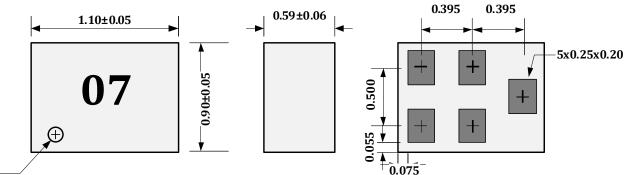
Pin Connection:

Input

Output

Ground

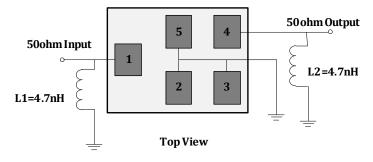
Package Outline Drawing



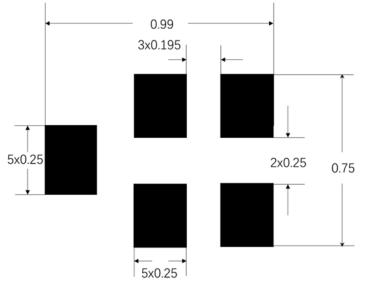
PIN1 Mark Notes:

- 1. Dimension: mm
- 2. Dimensions nominal unless otherwise noted
- 3. Contact area are gold plated
- 4. Pad(1) to (5) are same size
- 5. XX is ROFS inside code

Test Circuit



PCB Footprint



Notes:

1

4

2.3.5

 Matching component values shown are ROFS evaluation board results, please adjust component values by the actual use environment.

Notes:

- 1 . Black indicates metalized area.
- This footprint represents a recommendation only, some modification may be necessary to suit end user assembly materials and processes.
- 3 . For solder pad recommendation see mechanical information.
- 4 . Dimensions shown are nominal in millimeters.

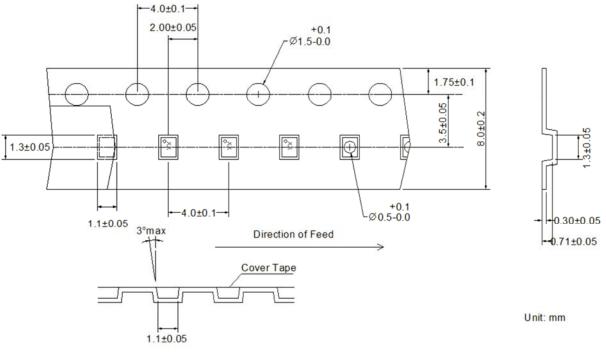


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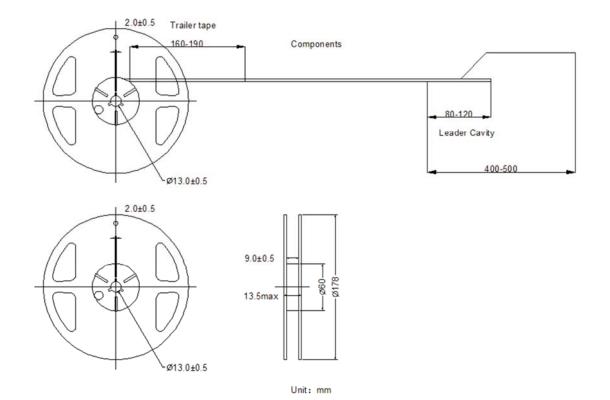
YTLP2416E Wi-Fi Filter for LTE (2402.5~2481.5MHz)

Packing

1. Tape Dimension



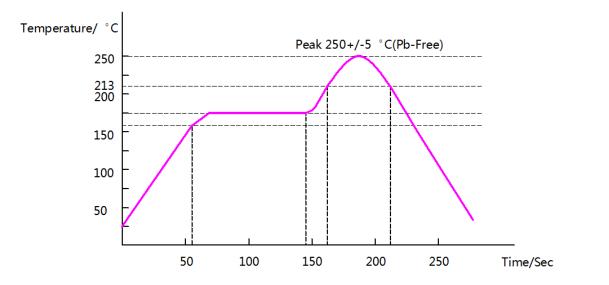
2. Reel Dimension



5000Pcs/Reel



Recommended IR Reflow Profile



Order Information

Part Number	Qty Per Reel	Container
YTLP2416E	5000	7 inch Reel



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 DSS-313

 PIN
 B39321R801H210
 1A0220-3
 JP510S
 LFB212G45SG8C341
 LFB322G45SN1A504
 LFL182G45TC3B746
 SF2159E
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 DC2327J5005AHF
 43020
 LFB2H2G60BB1C106
 LFL15869MTC1B787
 X3C19F1-20S
 XC3500P-20S
 10013-20

 SF2194E
 CDBLB455KCAX39-B0
 TGL2208-SM, EVAL
 RF1353C
 051157-0000
 PD0922J5050D2HF
 1E1305-3
 1F1304-3S
 1G1304-30

 B0922J7575AHF
 10017-3
 TP-103-PIN
 BD1222J50200AHF
 BD1722J50100AHF
 2450DP39K5400E
 BD0810J50150AHF