YATELIAN

YTLP2551D

Band41N_160M

Description

YTLP2551D is a LTE Band 41 (2515-2675MHz) Tx/Rx bandpass filter designer for use in High Power User Equipment applications with a package size of only 1.4x1.1mm.

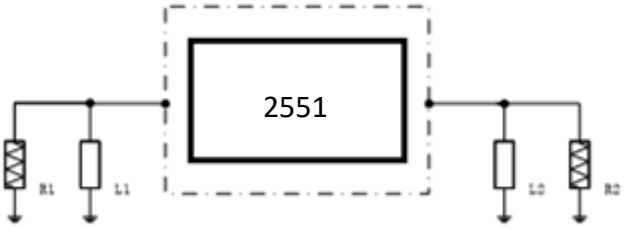
YTLP2551D is designed with Film Bulk Acoustic Resonator (FBAR) technology, which provides high-Q filters and meet requirements of low insertion loss, high out-of-band attenuation, high power handling and stringent linearity.

YTLP2551D uses chip scale packaging (CSP) technology to assembly the filters into a molded chip-on-board module.

Features

- Miniature Size
  1.4mm x 1.1 mm x 0.59 mm
- Low insertion loss
  - Tx/Rx bandpass, 2515-2675MHz: 1.7dB Typ.
- High Rejection in 2.4G Wi-Fi and 5G New Band
  - 2.4G Wi-Fi: 42dB Typ.
- HPUE：32dBm, 55℃, 5000h
- Operation Temperature：-20 to +85℃
- Storage Temperature：-40 to +85℃

Functional Block Diagram (Top View)



Reference Des.	Value	Description	
R1	50ohm		
R2	50ohm		
L1	4.7nH	Inductor	Pin1_Input
L2	4.7nH	Inductor	Pin4_Output

Environmental

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

Pin Connection

No.	Function
1	Tx/Rx
2	GND
3	GND
4	Ant
5	GND

Electrical Specification

Transmit Port to Antenna Port				
Parameter(Operable Temperature: (- 20° C ~ + 85° C)	**Min**	**Typ***	**Max**	**Unit**
Insertion Loss				
(2515~2595MHz)	\	1.7	2.3	dB
(2595~2675MHz)	\	1.3	1.9	
Ripple				
(2515~2675MHz)	\	0.3	0.7	dB
VSWR				
Tx/Rx Port (2515~2675MHz)	\	1.33	1.67	dB
Ant Port (2515~2675MHz)	\	1.33	1.67	dB
Absolute Attenuation				
(10~699MHz)	40	50	\	dB
(699~916MHz)	30	42	\	dB
(916~1565MHz)	17	28	\	dB
(1565~1615MHz)	18	28	\	dB
(1615~1710MHz)	18	28	\	dB
(1710~1785MHz)	20	28	\	dB
(1805~1880MHz)	22	29	\	dB
(1880~1920MHz)	20	28	\	dB
(1920~1980MHz)	20	30	\	dB
(2110~2170MHz)	25	32	\	dB
(2300~2400MHz)	35	42	\	dB
(2401~2468MHz)	35	42	\	dB
(2451~2473MHz)	35	42	\	dB
(2456~2478MHz)	35	42	\	dB
(2461~2483MHz)	25	30	\	dB
(2760~2850MHz)	25	30	\	dB
(2850~3300MHz)	30	36	\	dB
(3300~4200MHz)	30	36	\	dB
(4400~4992MHz)	40	52	\	dB
(4992~5380MHz)	40	50	\	dB
(5380~7487MHz)	30	38	\	dB
(7487~8070MHz)	25	32	\	dB

Typical Performance at Tc=25℃

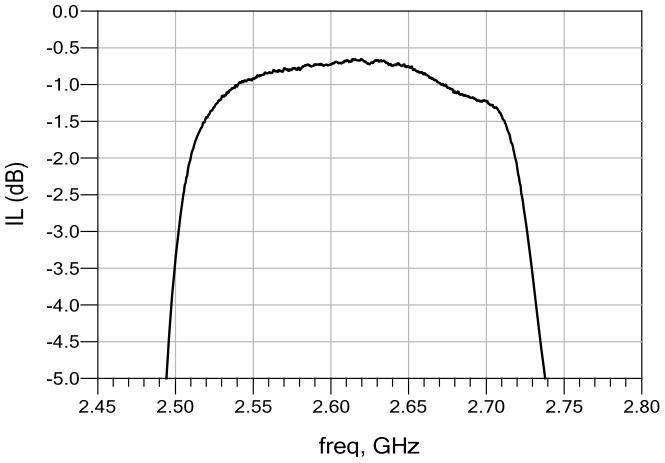


Figure1. Pass Band

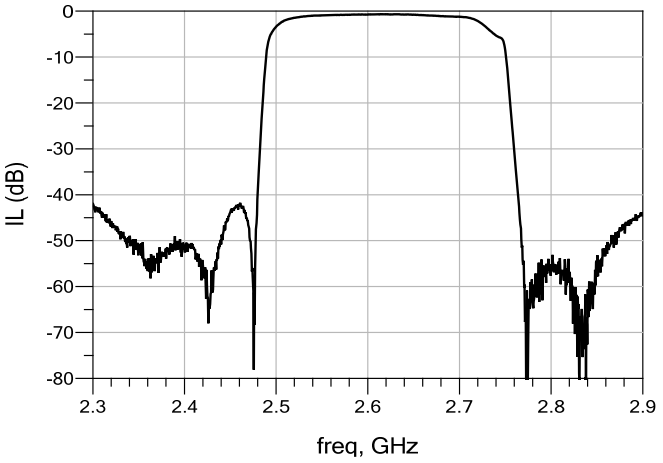


Figure2. Narrow Band

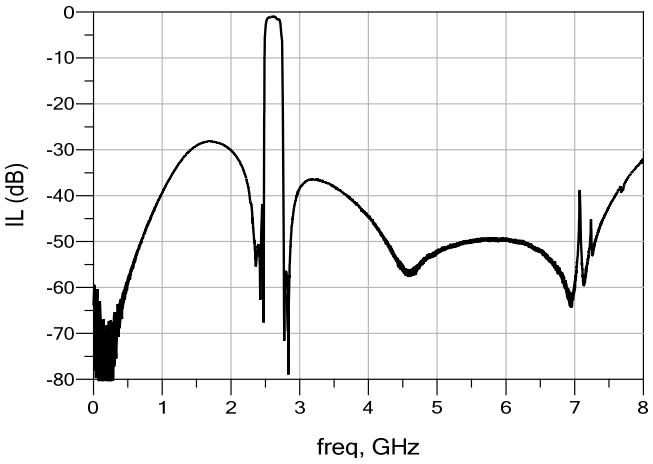


Figure3. Wide Band

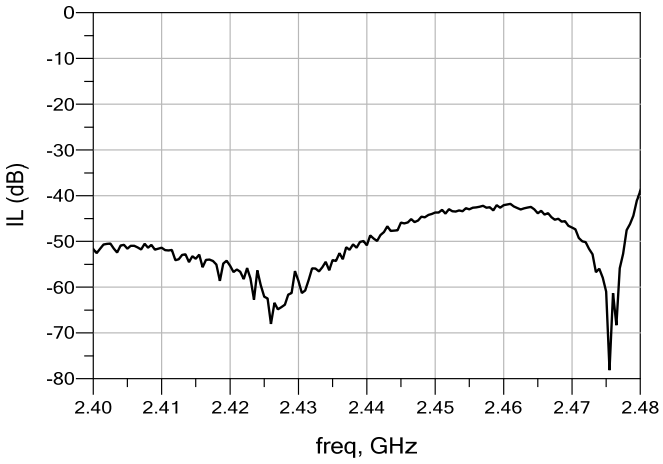


Figure4. Rejection in 2.4G Wi-Fi

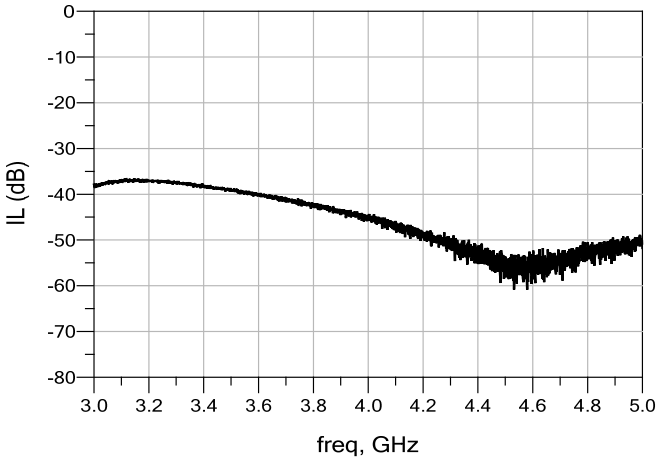


Figure5. Rejection in LTE 5G

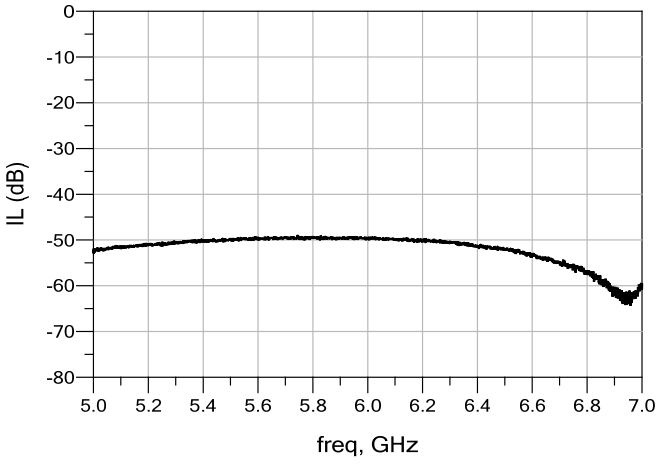


Figure6. Rejection in 5G Wi-Fi

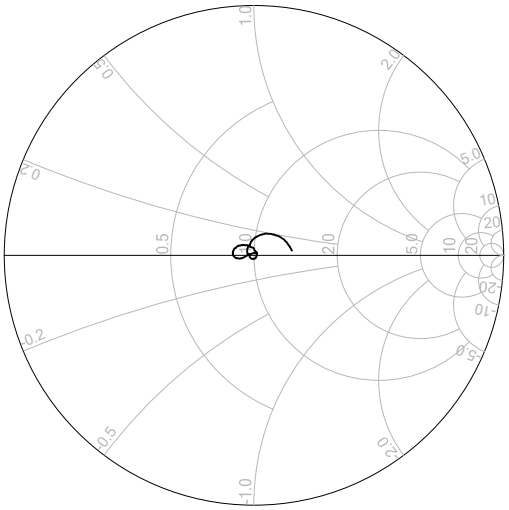


Figure7. S11

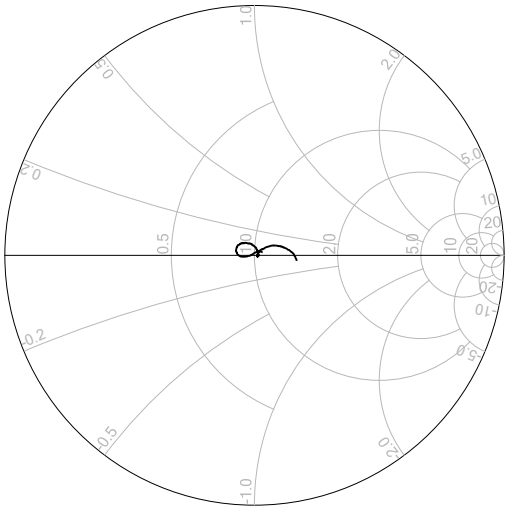
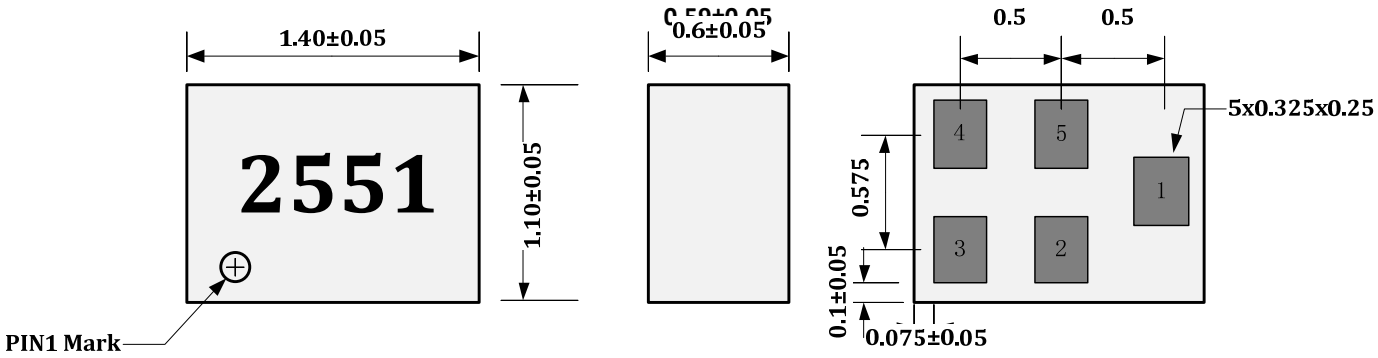


Figure8. S22

Package Outline



Note:

1. Dimension: mm
2. Dimensions nominal unless otherwise noted
3. Contact area are gold plated

No.	Function
1	Tx/Rx
2	GND
3	GND
4	Ant
5	GND

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Signal Conditioning ***category:***

Click to view products by YTL ***manufacturer:***

Other Similar products are found below :

MAPDCC0001 MAPDCC0004 PD0409J5050S2HF HHS-109-PIN AFS14A30-2185.00-T3 AFS14A35-1591.50-T3 DS-323-PIN DSS-313-PIN B39321R801H210 1A0220-3 JP510S LFB212G45SG8C341 LFB322G45SN1A504 LFL182G45TC3B746 SF2159E 30057 AFS1575.42S4-T FM-104-PIN CER0813B MAPDCC0005 3A325 40287 41180 ATB3225-75032NCT BD0810N50100AHF JHS-115-PIN DC0710J5005AHF 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