TEMEXPRESS

TMX W319

SAW Bandpass Filter – GSM Tx - RF *Specification (Rev 3)*

Features	P01
Package drawing & Pin out	P01
Marking	P01
Technical characteristics	P02
Measurement circuit	P02
Frequency characteristics	P03
Maximum ratings	P04
Recommended reflow soldering profile	P04
Tape Specifications	P05
Reel Specifications	P05

Temexpress is a brand name of **rakon**

www.temexpress.com



TMX W319

SAW Bandpass Filter – GSM Tx - RF Specification (Rev 3)

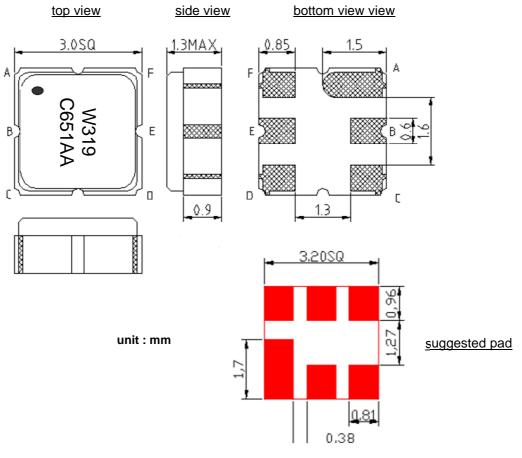
December 14th, 2016

Features

- GSM Tx RF SAW Filter
- 902.5 MHz Center Frequency
- **25MHz usable Passband**
- **D** 50 Ohms Single Configuration
- Ceramic package for Surface Mounted Technology

Package drawing & Pin out

The product is in conformance with the European RoHs Regulation 2002/95.



Pin configuration						
B Input						
Е	Output					
A,C,D,F	Case Ground					

Marking		
Line 1	W3192	Temexpress designation
Line 2	C638AA	C is production Code / 6 is Year 2016 & 51 is Week 51
		AA" is internal production batch code, it corresponds to the wafer

Marking is made by Laser



TMX W319

SAW Bandpass Filter – GSM Tx - RF Specification (Rev 3)

December 14th, 2016

Technical characteristics

Reference Temperature: +25°C

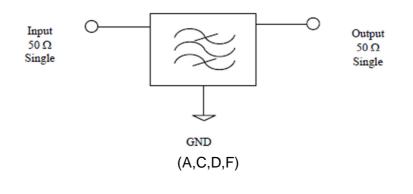
Ele	ectrical Parameters	Unit	Minimum	Typical ⁽¹⁾	Maximum	
Center Frequency f	0	MHz	-	902.5	-	
PassBand Width		MHz	-	890 ~ 915	-	
Insertion Loss with	in 890MHz – 915MHz	dB	-	2.9	3.6	
Amplitude Ripple w	vithin 890MHz – 915MHz	dB	-	0.5	1.6	
VSWR within 890M	Hz – 915MHz	dB	-	1.5	2.3	
Absolute Attenuation	on					
D.C. ~	845 MHz	dB	45	51	-	
925.3 ~	935.3 MHz	dB	5	21	-	
935.3 ~	980 MHz	dB	25	28	-	
980 ~	1200 MHz	dB	50	54.8	-	
1200 ~	3000 MHz	dB	25	28	-	
Temperature Coeffi	cient of Frequency	ppm/K	-	-35	-	
Source Impedance	(Single ended)	Ohms	-	50 ⁽²⁾	-	
Load Impedance	(Single ended)	Ohms	-	50 ⁽²⁾	-	
Package type & size						
Length x Wid	th	mm		3.0 x 3.0		
Height		mm			1.3	
Pin Out	-					
Input	В	Output	<u> </u>	Е		
Case Ground	A, C, D, F	To be g	rounded	A, C, D, F		

Note :

- (1) Typical values are nominal performances at room temperature
- (2) No matching network required for operation at 50 $\boldsymbol{\Omega}$

Measurement circuit

50 Ω / 50 Ω Configuration



Temexpress reserves the right to modify herein specifications and informations at any time when necessary to provide optimum performance and cost.

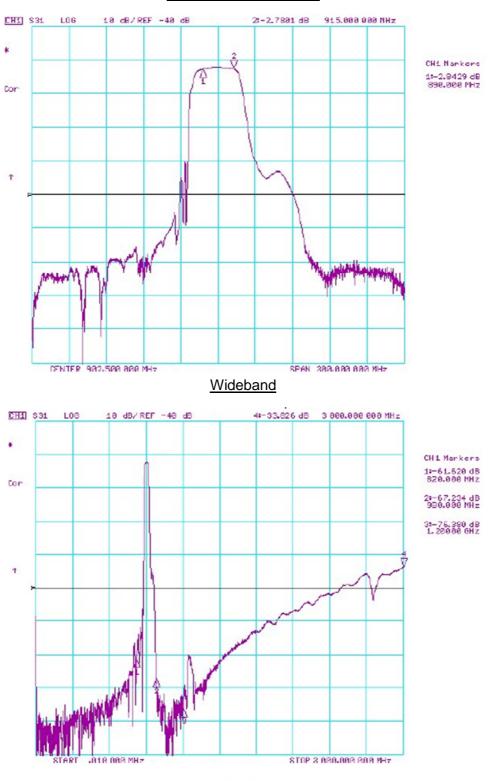


TMX W319

SAW Bandpass Filter – GSM Tx - RF Specification (Rev 3)

December 14th, 2016

Frequency characteristics



TYPICAL S21 RESPONSE

Temexpress reserves the right to modify herein specifications and informations at any time when necessary to provide optimum performance and cost.



TMX W319

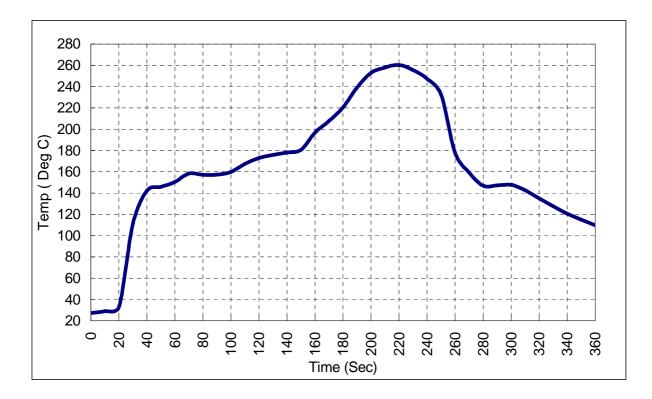
SAW Bandpass Filter – GSM Tx - RF Specification (Rev 3)

December 14th, 2016

Maximum ratings

Storage Temperature Range	°C	[-40°C ; +85°C]		
Operating Temperature	°C	[-30°C ; +85°C]		
DC voltage	V	0		
Maximum Input Power Handling	dBm	10		

Recommended reflow soldering profile



The components shall remain within the electrical specifications after it soldered on the 1mm thickness PCB board and dipped in the solder at $260 \pm 5 \text{ degC}$ during 10 ± 1 seconds.

The components shall remain within the electrical specifications after it soldered by electric iron, solder at $350 \pm 10 \text{ degC}$ during 3~4 seconds. Recovery time: $2h \pm 0.5h$.

Ultrasonic cleaning may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.

Only leads of component may be soldered. Please avoid soldering another part of component.

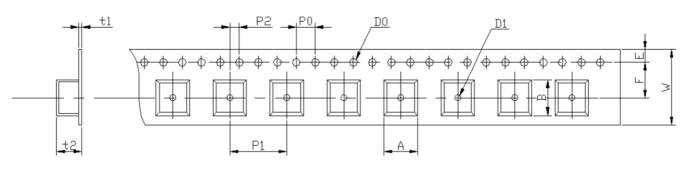


TMX W319

SAW Bandpass Filter – GSM Tx - RF Specification (Rev 3)

December 14th, 2016

Tape Specifications



Tape running direction

W	F	E	P0	P1	P2	D0	D1	t1	t2	Α	В
12 ±0.3	5.5 ±0.3	1.75 ±0.1	4.0 ±0.2	8.0 ±0.1	2.0 ±0.2	Ø1.5 ±0.1	Ø1.5 ±0.25	0.31 max	1.7 max	3.35 max	3.35 max

unit : mm

Temexpress reserves the right to modify herein specifications and informations at any time when necessary to provide optimum performance and cost.