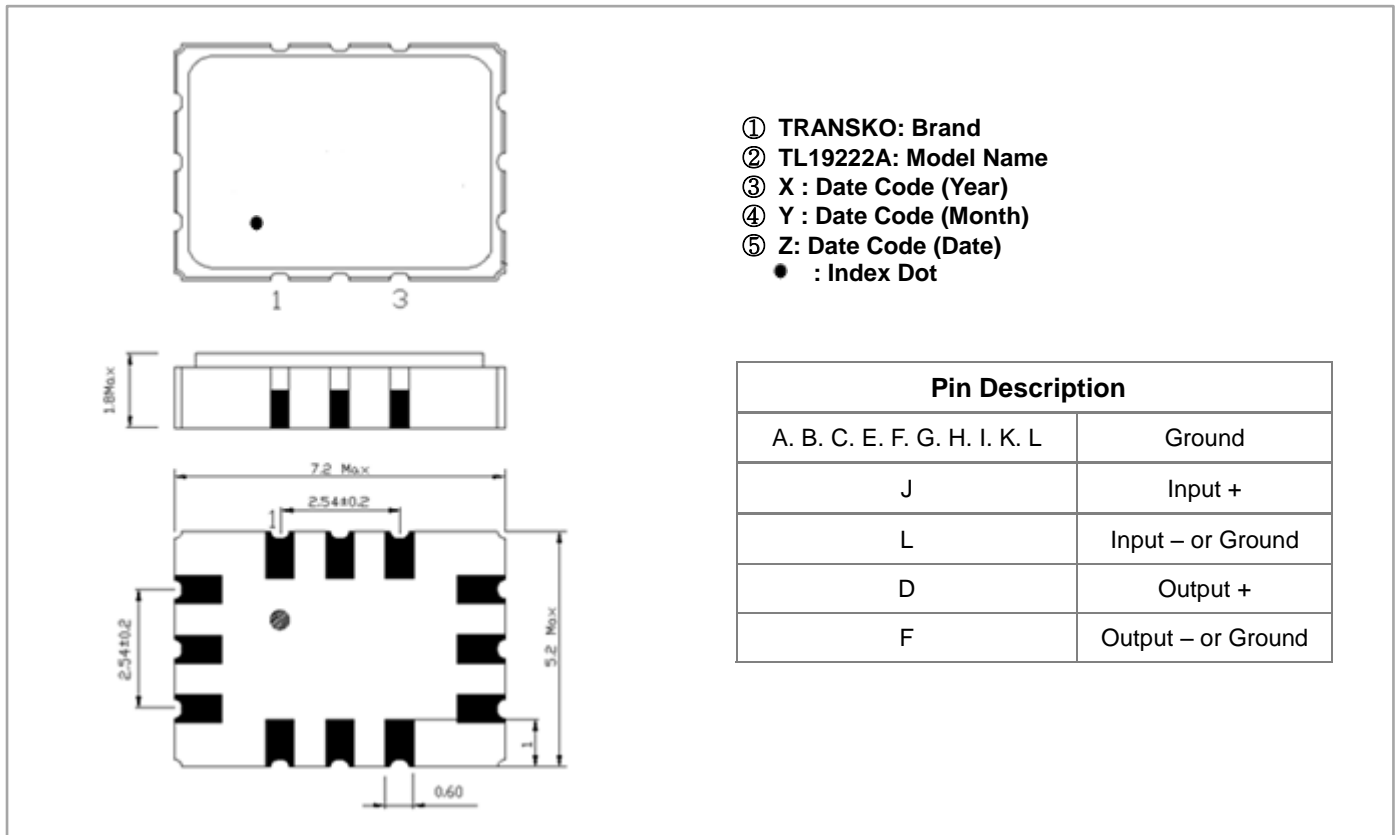


- 192.0 MHz IF SAW Filter / 24.13 MHz Bandwidth
- Revision 0: 24 Mar. 2009

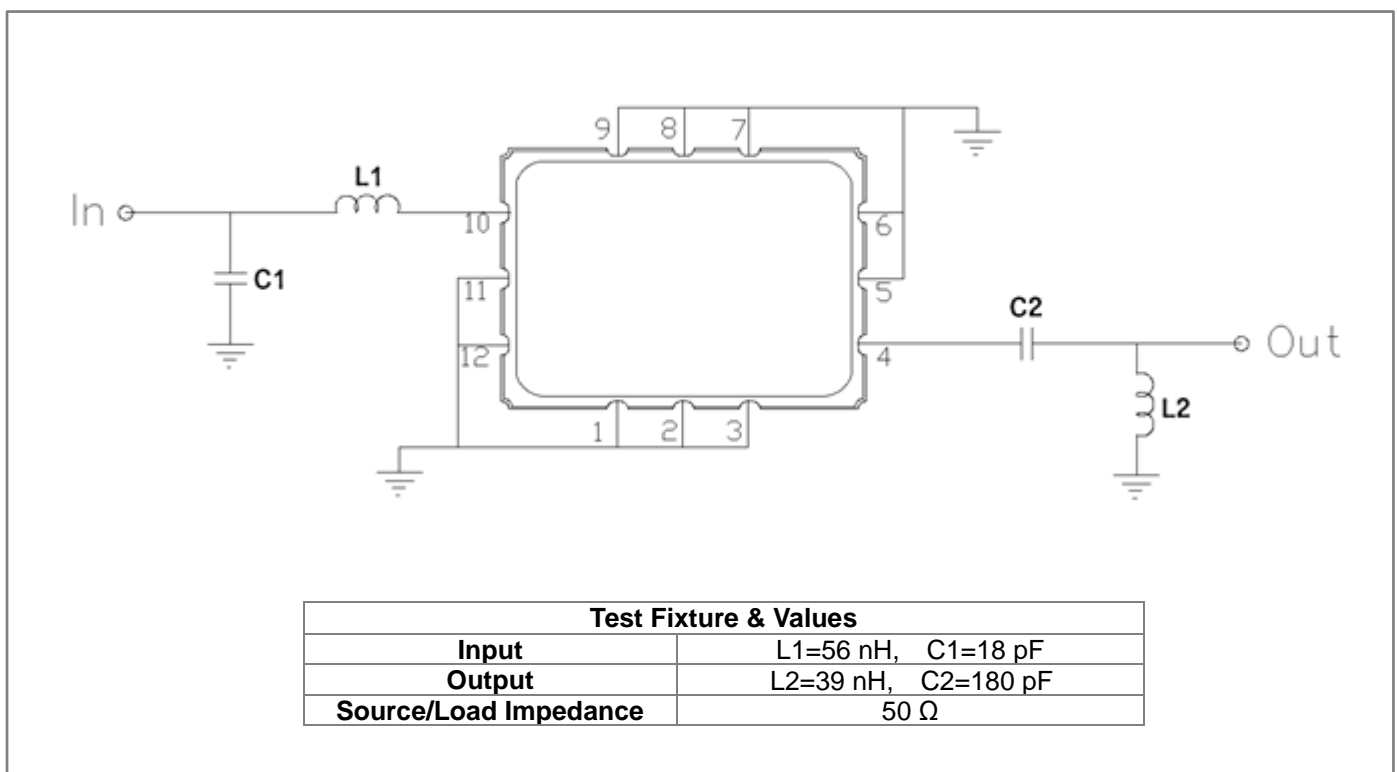
## Electrical Characteristics

D A T A				TYP. VALUE		TOLERANCE / LIMIT			
<b>Insertion loss</b>				$a_e$	11.2	dB	max.	13.5	dB
(reference level)									
<b>Nominal frequency</b>				$f_N$	-			192.0	MHz
<b>Centre frequency</b>				$f_C$	192	MHz		-	
<b>Passband</b>				PB	-		$f_N \pm$	10.25	MHz
<b>Pass band ripple</b>				p-p ripple	0.4	dB	max.	1	dB
<b>Amplitude ripple over any 200kHz of the PB</b>				p-p	0.3	dB	max.	0.4	dB
<b>Bandwidth</b>				BW					
1	dB				24.13	dB	min.	20.5	MHz
40	dB				29.73	dB	max.	42	MHz
<b>Relative attenuation</b>				$a_{rel}$					
$f_N$			...	$f_N \pm$	10.25	MHz		0.40	dB
$f_N$	$\pm$	15	MHz	...	$f_N \pm$	21	MHz	43.0	dB
$f_N$	-	92	MHz	...	$f_N -$	62	MHz	50.0	dB
$f_N$	-	62	MHz	...	$f_N -$	21	MHz	45.0	dB
$f_N$	+	21	MHz	...	$f_N +$	58	MHz	45.0	dB
$f_N$	+	58	MHz	...	$f_N +$	98	MHz	53.0	dB
<b>Absolute group delay in PB</b>					0.7	us	Max.	1	us
<b>Group delay ripple in PB</b>				GDR	35	ns	max.	100	ns
<b>Group delay ripple over any 200kHz of the PB</b>					25	ns	max.	30	ns
<b>Return loss</b>					6.7		min.	6	dB
<b>Input power level</b>					-		max.	18	dBm
<b>Operating temperature range</b>				OTR	-			- 40 °C ... + 85 °C	
<b>Storage temperature range</b>					-			- 40 °C ... + 85 °C	
<b>Temperature coefficient of frequency</b>				TCf **	-86	ppm/K		-	

## Package Dimensions



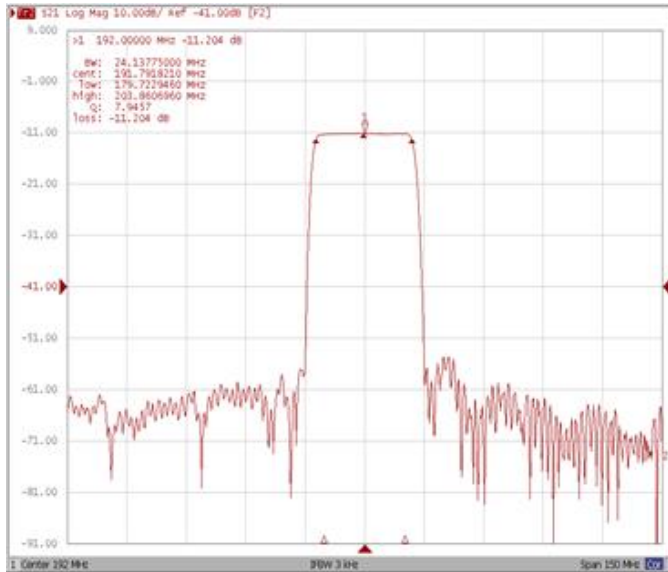
## Testing Environment



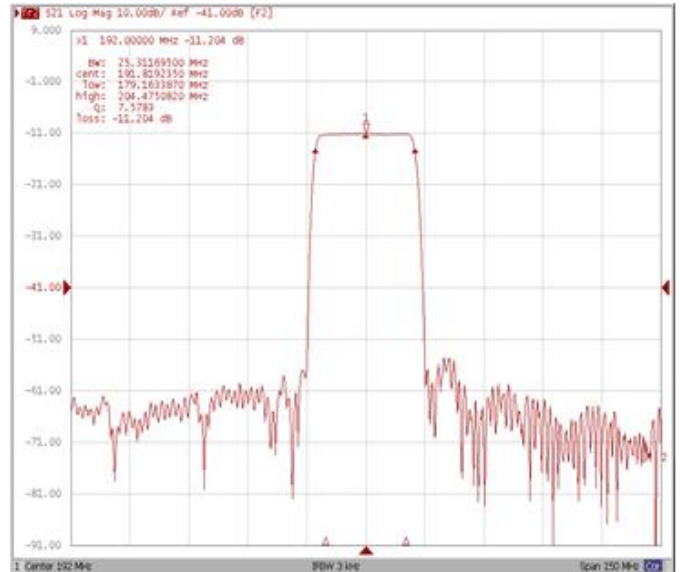
## Frequency Characteristics

### Frequency Response

**Bandwidth at -1.0 dB**



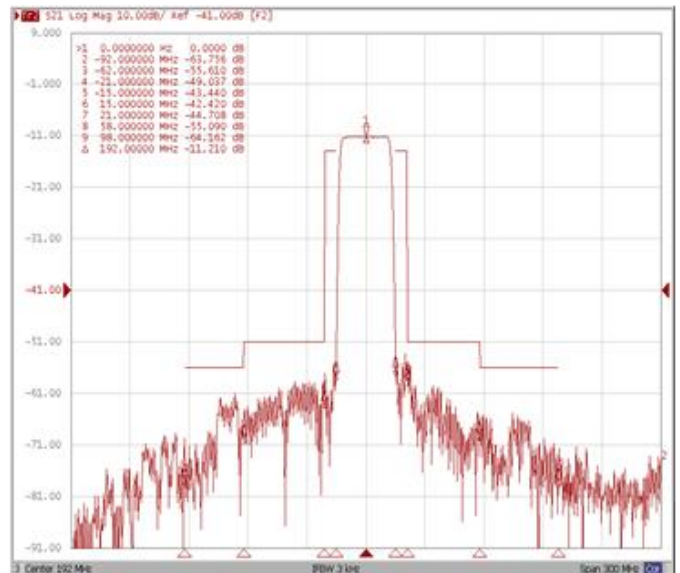
**Bandwidth at -3.0 dB**



**Bandwidth at -40.0 dB**

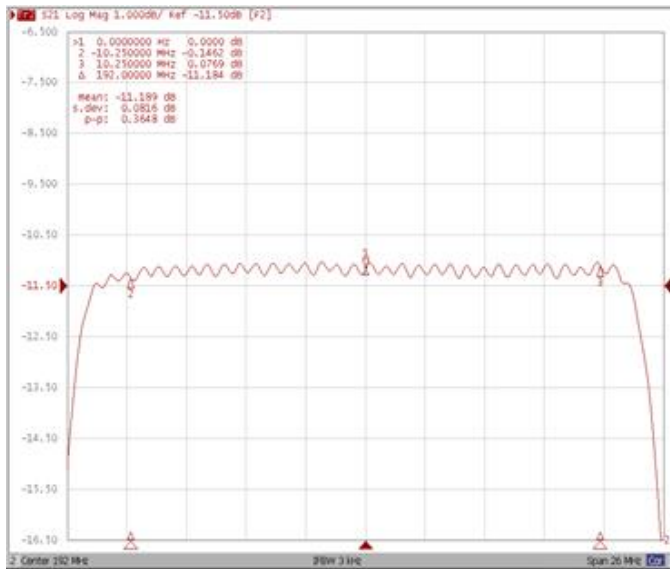


**Relative Attenuation**

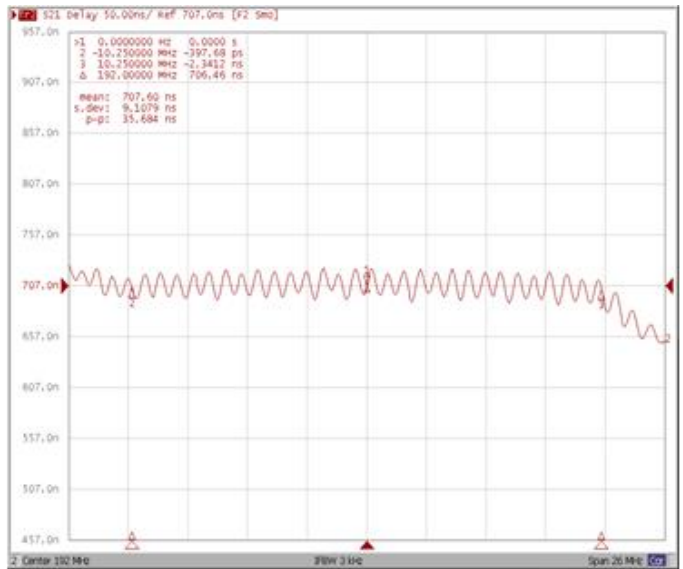


## Frequency Response

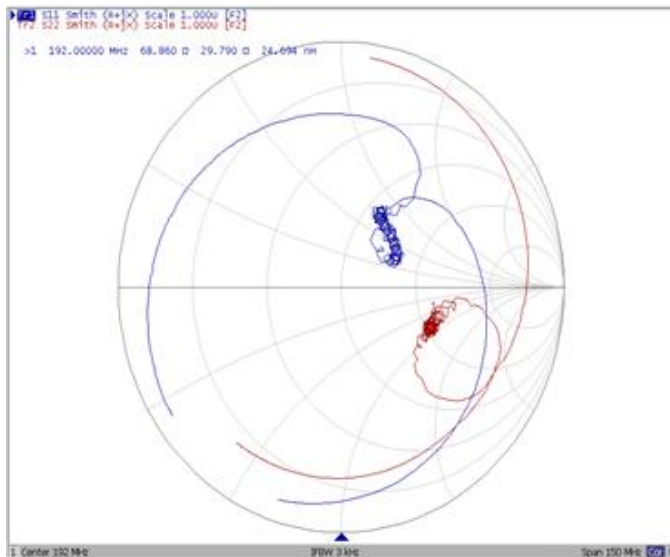
**Ripple Variation at Fo ±10.25MHz**



**Group Delay Variation at Fo ±10.25MHz**



**Smith Chart**



**Return Loss**

