

SK3070RB

Band7, RF-Rx Balance SAW Filter
Revision 0: August 2016

MSL 3 Device



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

□ Electrical Characteristics

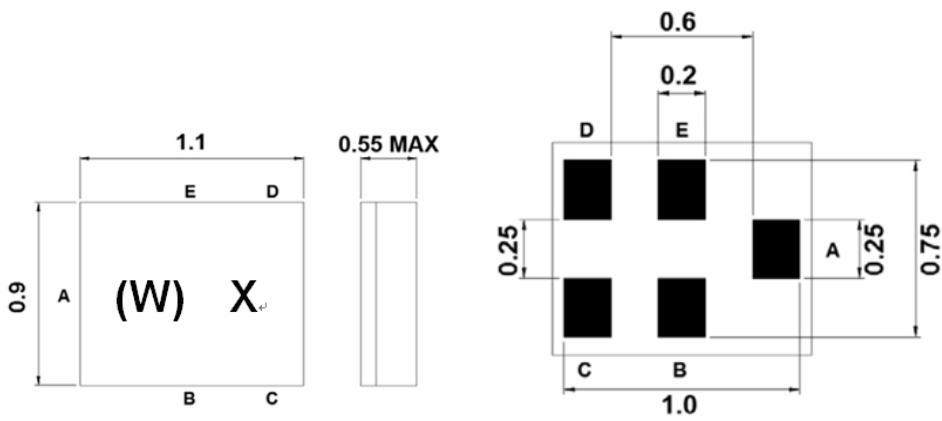
Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (unbalance) ⁽¹⁾	□	-	50	-
Load Impedance (balance) ⁽¹⁾	□	-	100//22nH	-
Package type & size	C14			
Length x Width	mm ²	-	1.1 x 0.9	-
Height	mm	-	-	0.55

Electrical Specification

Parameters Description	Unit	Minimum	Typical @+25°C	Maximum
Center Frequency (Fo)	MHz	-	2655.0	-
Insertion Loss within 2620.0 ~ 2690.0 MHz	dB	-	2.5	3.3
Amplitude Ripple within 2620.0 ~ 2690.0 MHz	dB _{p-p}	-	0.9	1.7
Input VSWR within 2620.0 ~ 2690.0 MHz	-	-	1.8	2.2
Output VSWR within 2620.0 ~ 2690.0 MHz	-	-	1.8	2.2
Amplitude Balance within 2620.0 ~ 2690.0 MHz	dB	-1.6	-0.6/+1.1	+1.6
Phase Balance within 2620.0 ~ 2690.0 MHz	deg	-12	-1.5/+7	+12
Attenuation:				
10.0 ~ 2500.0 MHz	dB	40	46	-
2500.0 ~ 2570.0 MHz	dB	45	49	-
2750.0 ~ 3000.0 MHz	dB	18	24	-
3000.0 ~ 4000.0 MHz	dB	30	43	-
4000.0 ~ 5240.0 MHz	dB	30	43	-
5240.0 ~ 5380.0 MHz	dB	30	44	-
5380.0 ~ 6000.0 MHz	dB	25	43	-

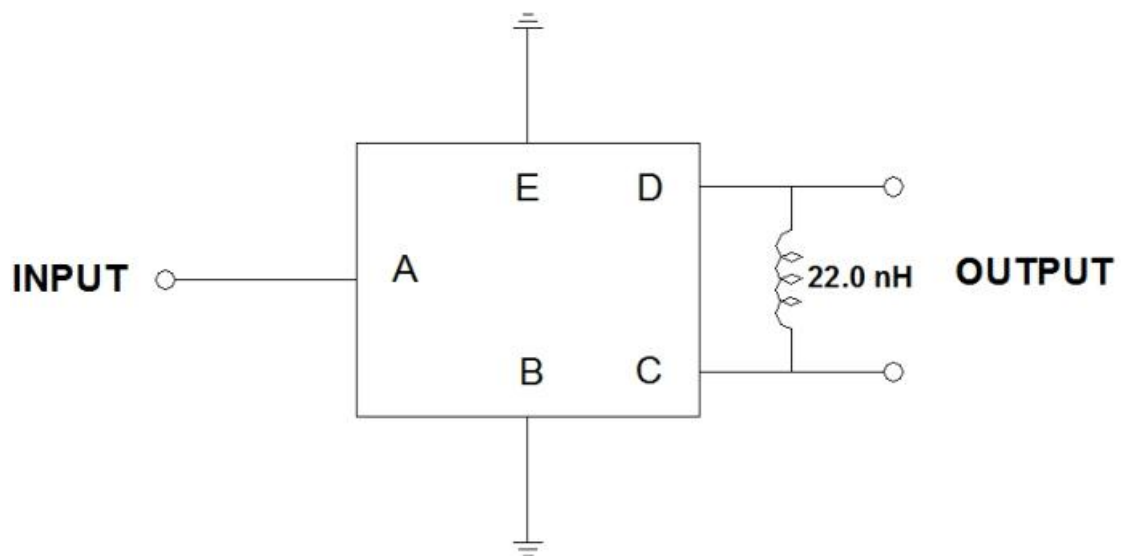
Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).



Marking Descriptions	
(W)	Series Number
X	Date Code(Year+Month)

Pin Description	
B, E	Ground
A	Input
C, D	Balanced Output

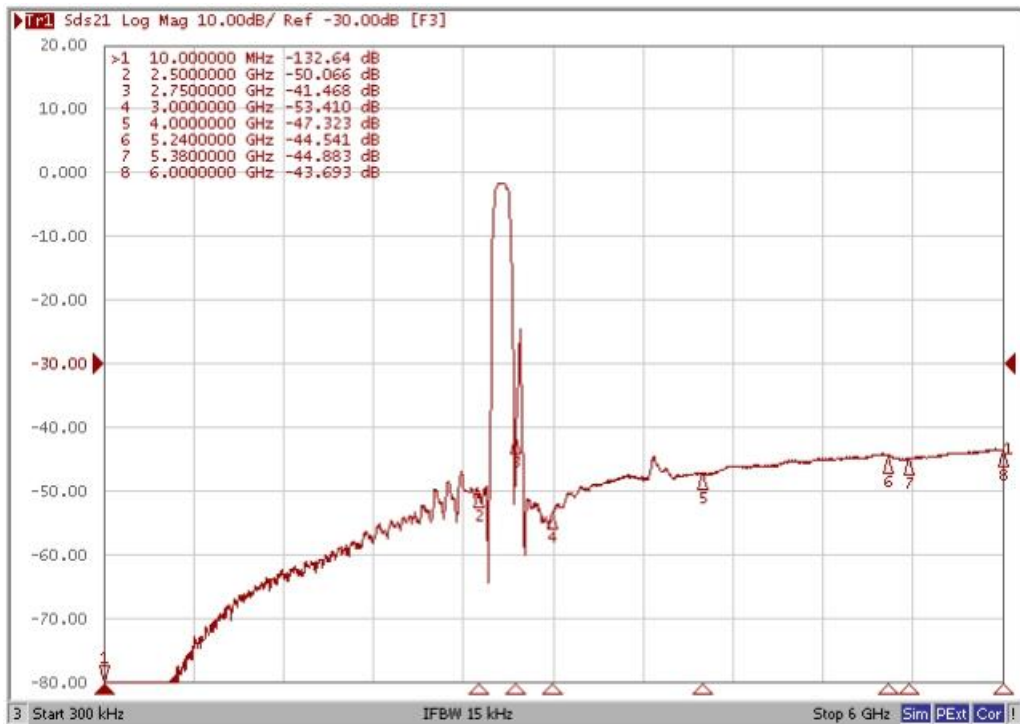
□ Testing Environment



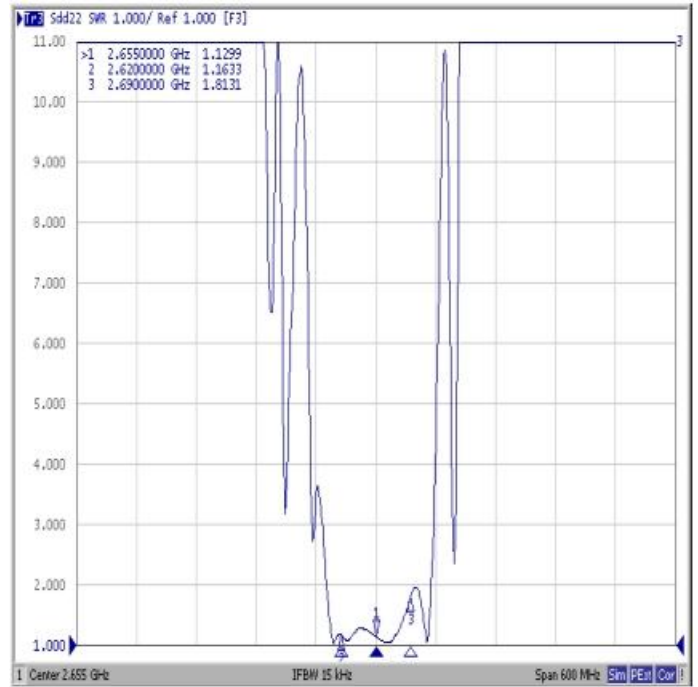
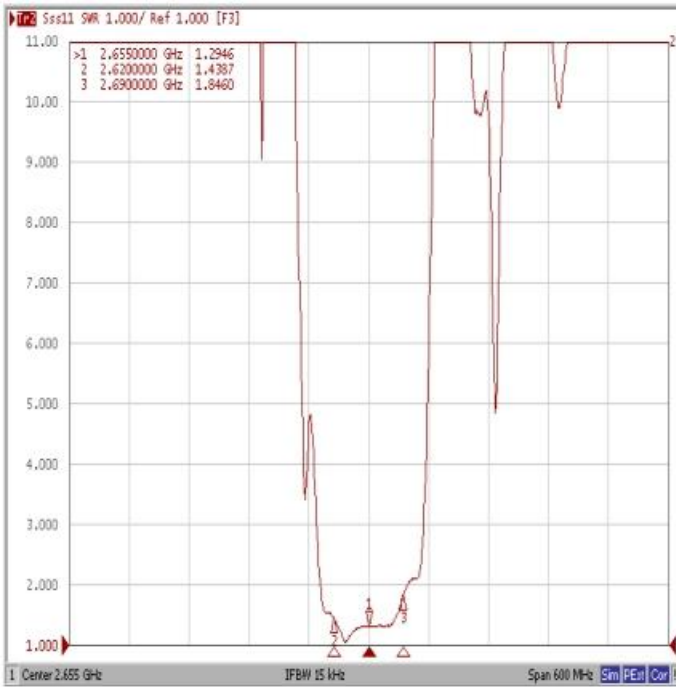
Source Impedance : 50 \square
Load Impedance : 100

□ Frequency Characteristics

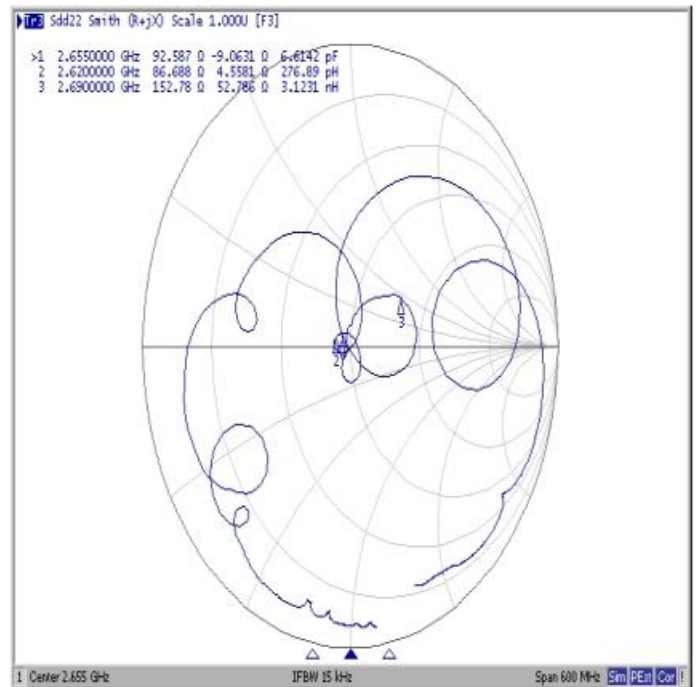
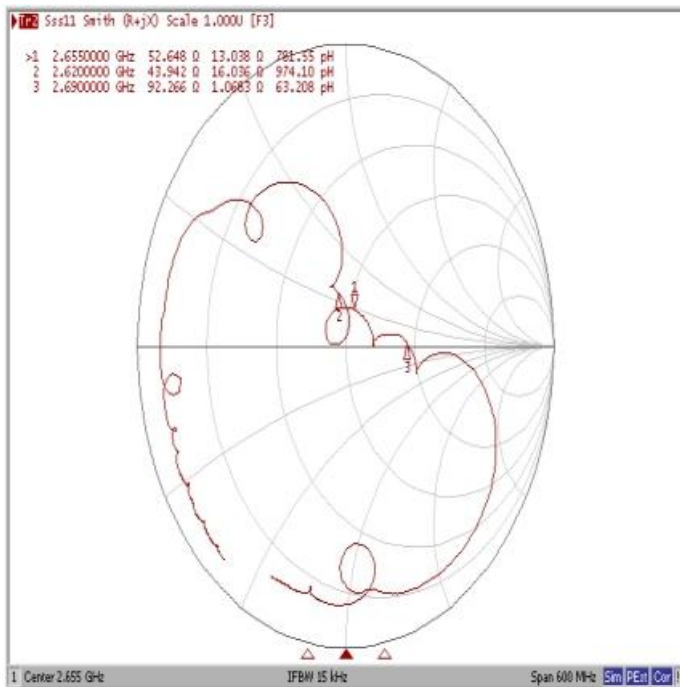
Frequency Response



VSWR



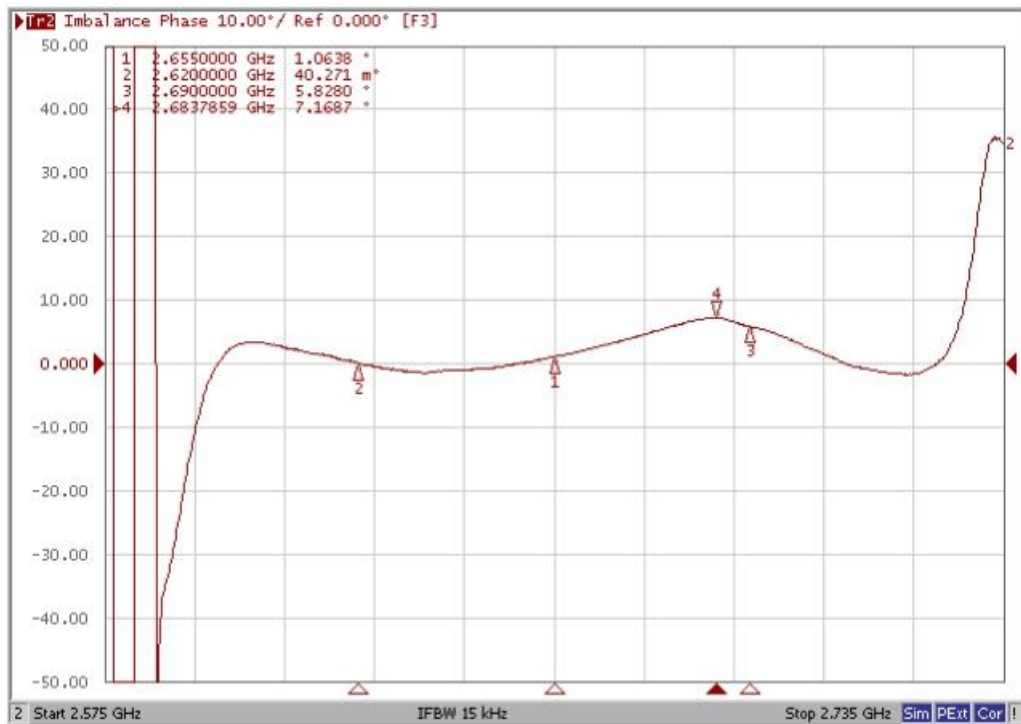
Smith Chart



Amplitude balance



Phase balance



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