

SK3050RB

Band5, RF-Rx Balance SAW Filter
Revision 0: August 2016

MSL 3 Device



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

□ Electrical Characteristics

Maximum Ratings

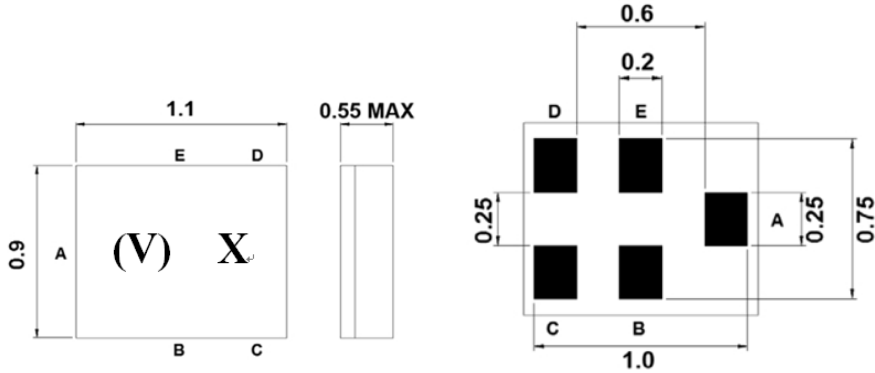
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	-
Maximum Input Power	dBm	-	-	15
Source Impedance (unbalance) ⁽¹⁾	□	-	50	-
Load Impedance (balance) ⁽¹⁾	□	-	100	-
Package type & size	C14			
Length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

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	881.5	-
Insertion Loss within 869.0 ~ 894.0 MHz	dB	-	1.5	2.0
Amplitude Ripple within 869.0 ~ 894.0 MHz	dB _{p-p}	-	0.5	1.0
VSWR within 869.0 ~ 894.0 MHz	-	-	1.7	2.0
Amplitude balance within 869.0 ~ 894.0 MHz	dB	-1.0	-0.4 ~ +0.2	+1.0
Phase balance within 869.0 ~ 894.0 MHz	deg	-10	-0.3 ~ +3.7	+10
Attenuation:				
DC ~ 824.0 MHz	dB	50	65	-
824.0 ~ 849.0 MHz	dB	50	57	-
914.0 ~ 960.0 MHz	dB	25	36	-
960.0 ~ 2000.0 MHz	dB	40	51	-
2000.0 ~ 6000.0 MHz	dB	30	37	-

Notes : (1) With Matching Network

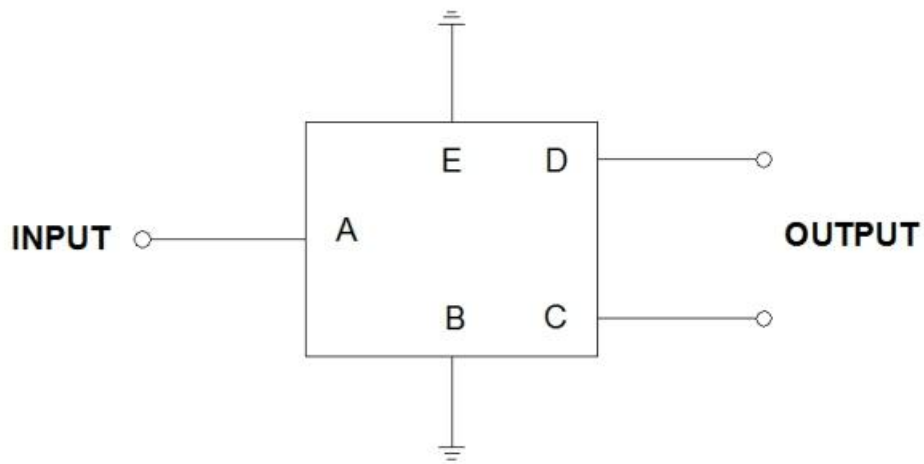
□ Package Dimensions



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

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

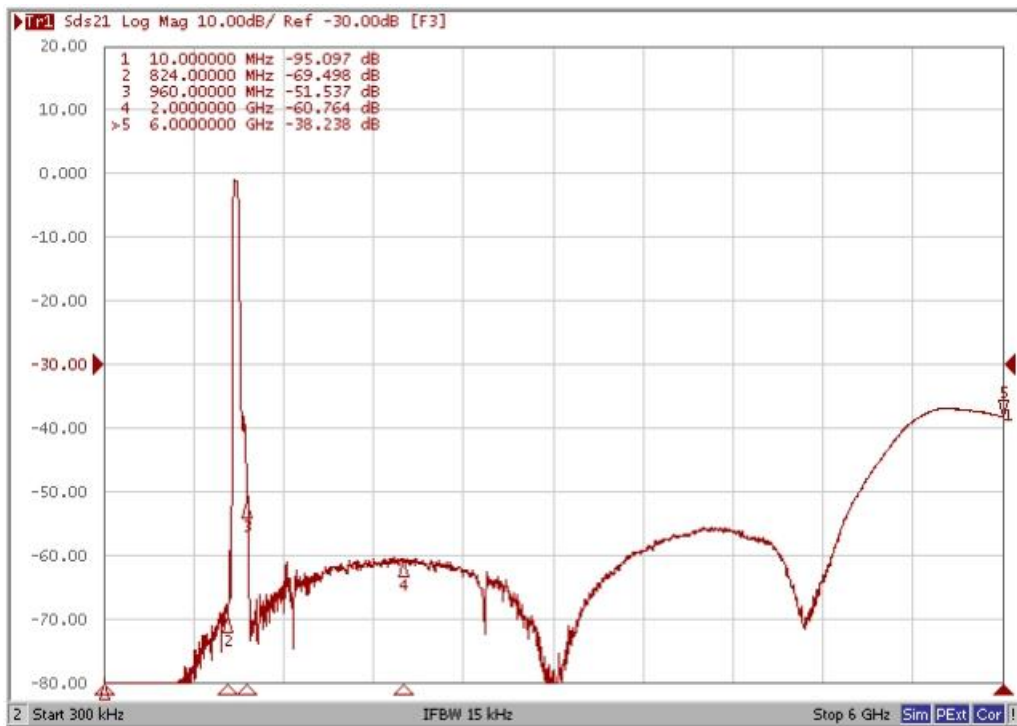
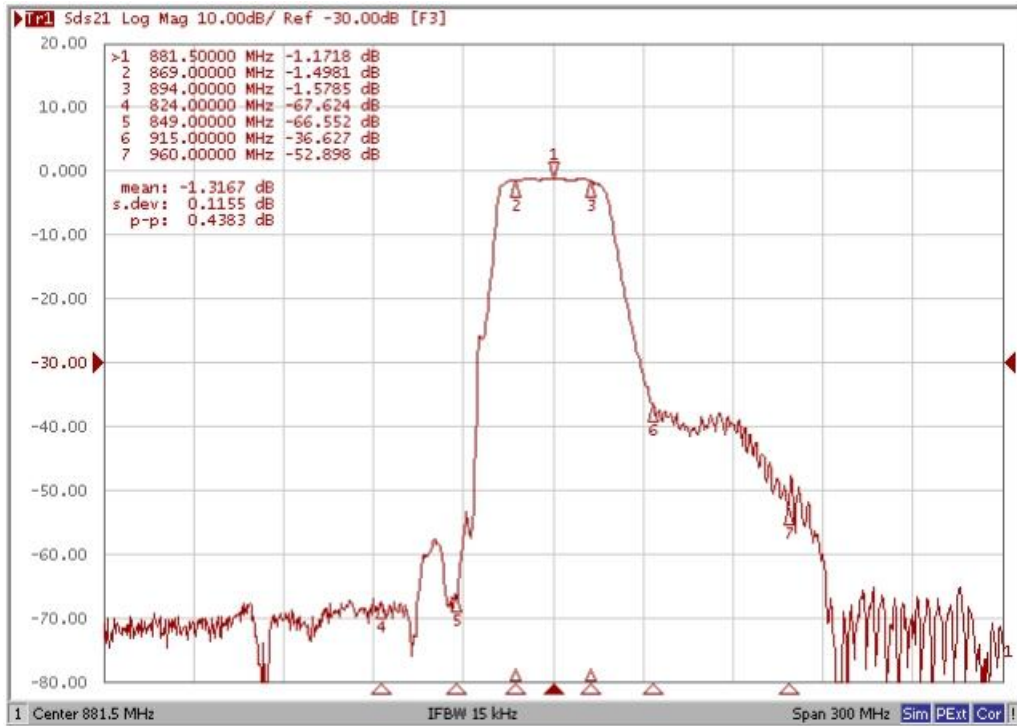
□ Testing Environment



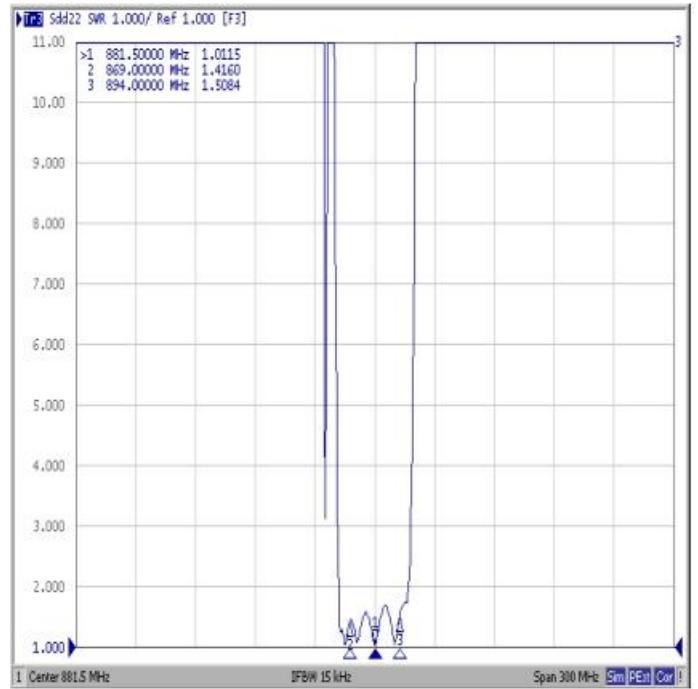
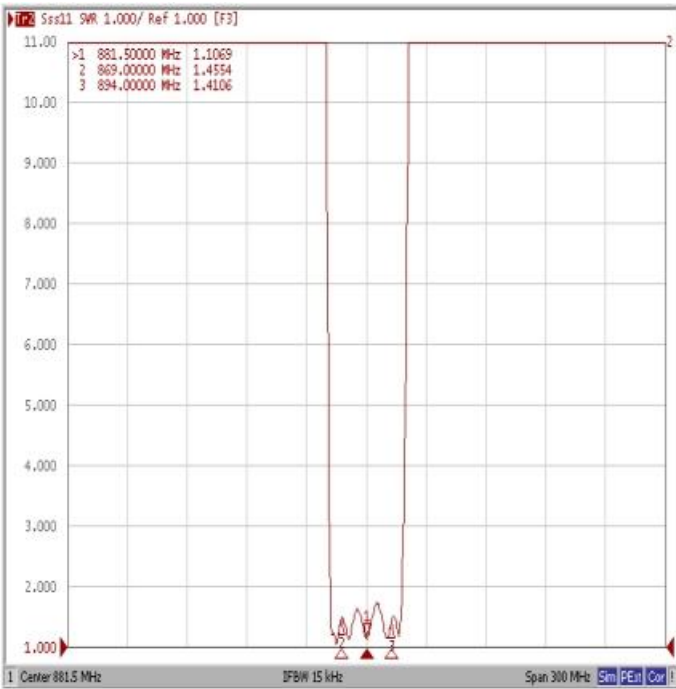
Source Impedance: 50
 □ Load Impedance: 100

□ Frequency Characteristics

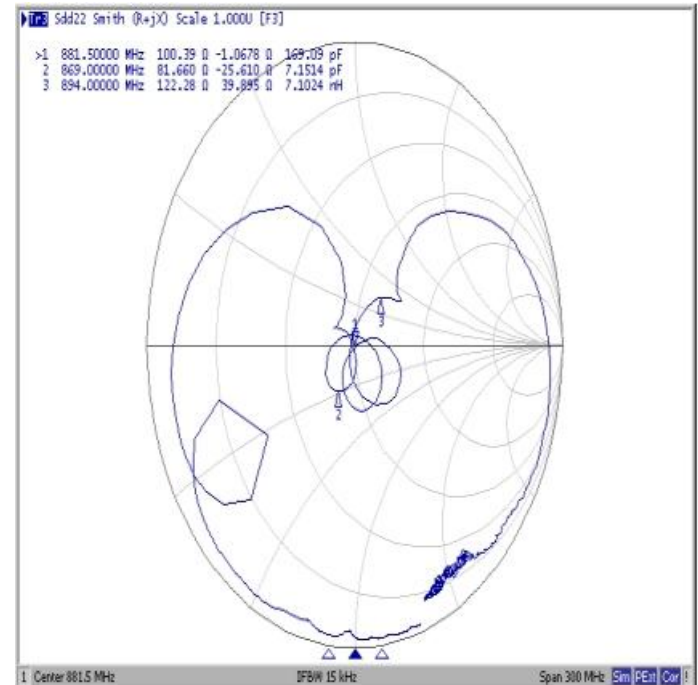
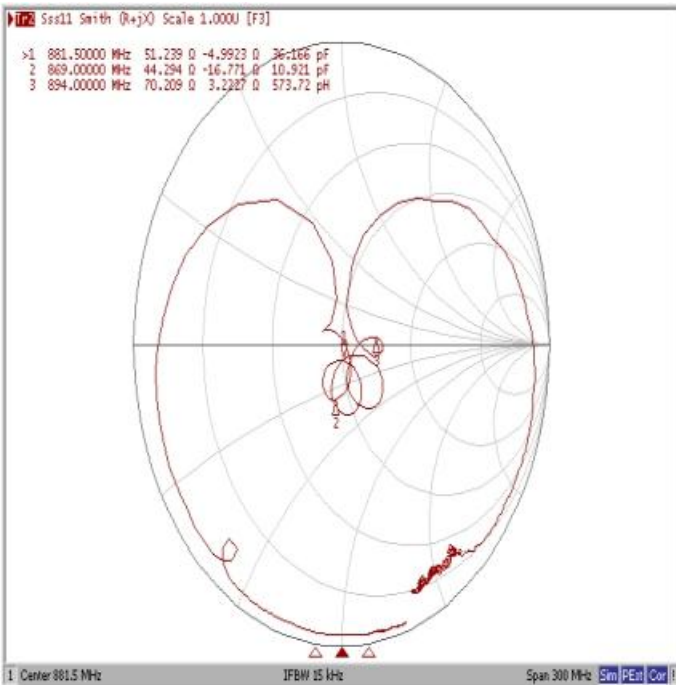
Frequency Response



VSWR



Smith Chart



Amplitude balance



Phase balance



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