



Total Solution Provider in Saw Device

SD-072302-S34

SAW DUPLEXER For 778.0MHz / 723.0MHz
Revision 0: August 2014



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

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Electrical Characteristics

Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-5	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Maximum Input Power	W	30dBm > 50,000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	50		
Output Tx Impedance	Ω	50		
Output Rx Impedance	Ω	50		
Package type & size	S34			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.45

Electrical Specification

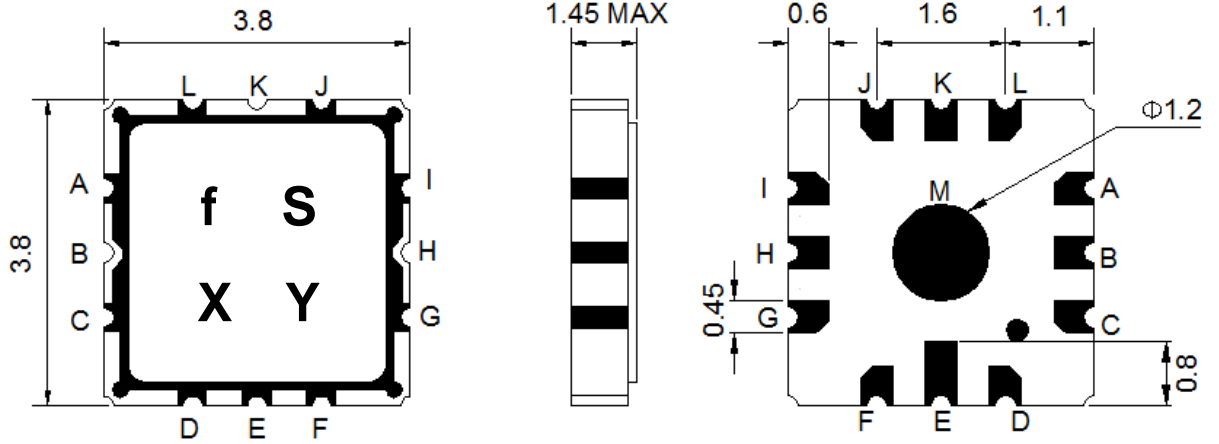
Ant →Tx(723.0MHz)		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	718.0 ~ 728.0	dB	-	1.3	3.0
Amplitude Ripple	718.0 ~ 728.0	dB _{p-p}	-	0.6	1.2
VSWR	718.0 ~ 728.0	-	-	1.5	2.0
Absolute Attenuation	773.0 ~ 783.0	dB	35	41	-

Rx(778.0MHz) → Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	773.0 ~ 783.0	dB	-	1.5	3.0
Amplitude Ripple	773.0 ~ 783.0	dB _{p-p}	-	0.6	1.2
VSWR	773.0 ~ 783.0	-	-	1.5	2.0
Absolute Attenuation	718.0 ~ 728.0	dB	30	39	-

Tx → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	718.0 ~ 728.0	dB	30	39	-
	773.0 ~ 783.0	dB	35	42	-

Notes : (1) With Matching Network

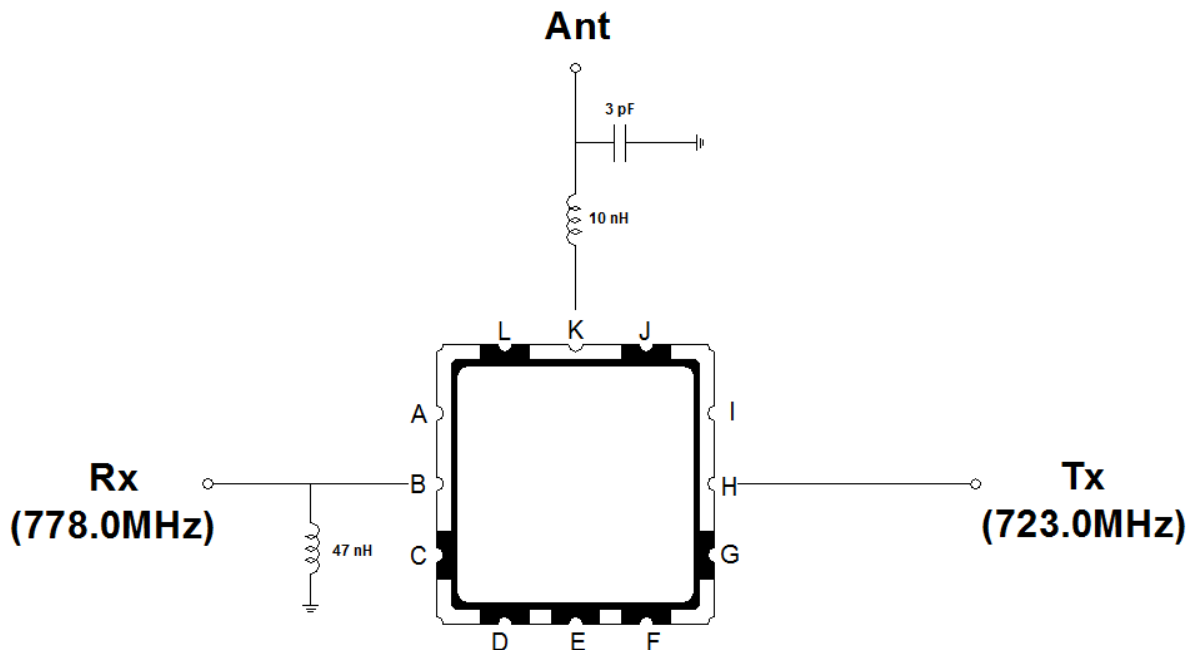
Package Dimensions



Marking Descriptions	
f	Wireless Application
S	Series Number
X	Date Code(Year)
Y	Date Code(Month)

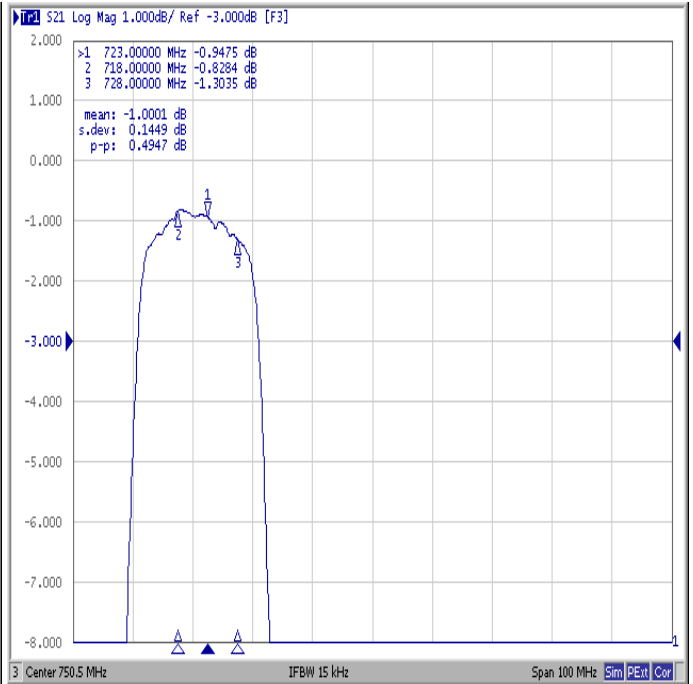
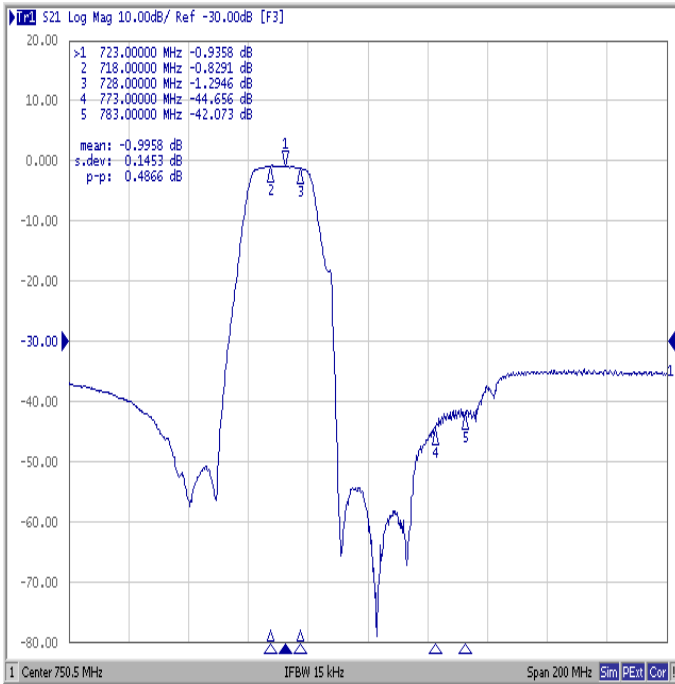
Pin Description	
A, C, D, E, F, G, I, J, L, M	Ground
K	Ant
B	Rx (778.0MHz)
H	Tx (723.0MHz)

Testing Environment

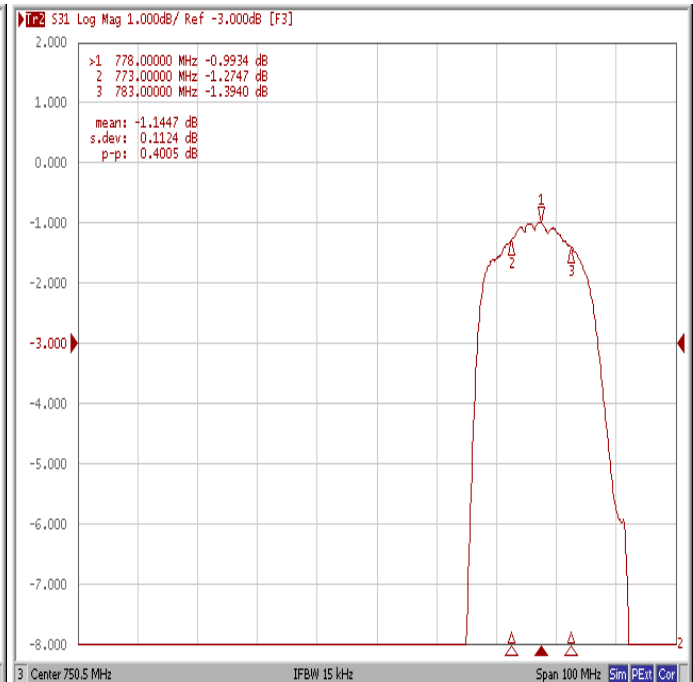
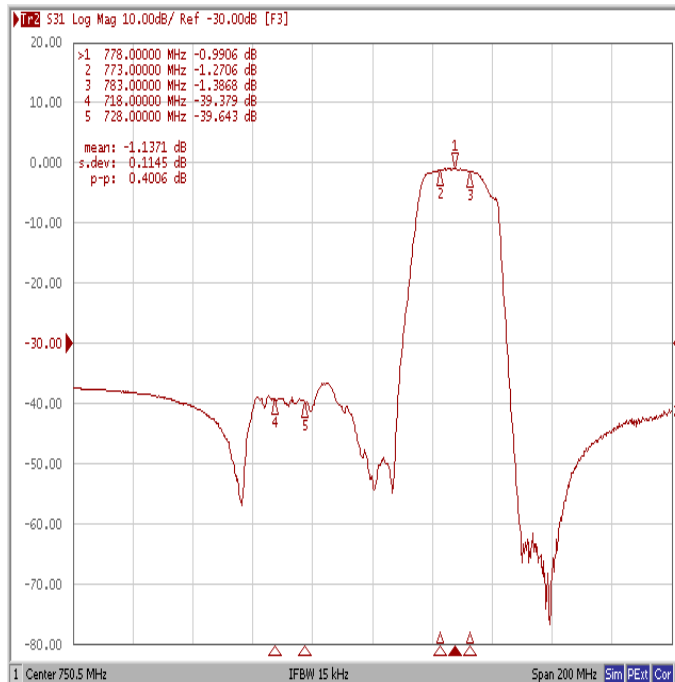


Frequency Characteristics

Tx to Ant

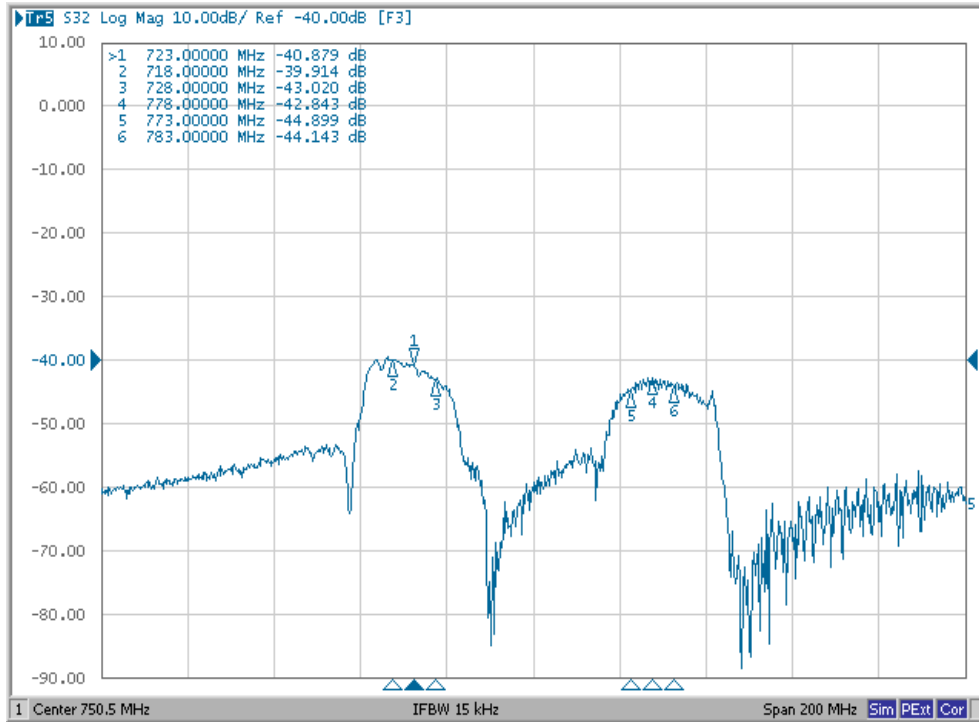


Ant to Rx



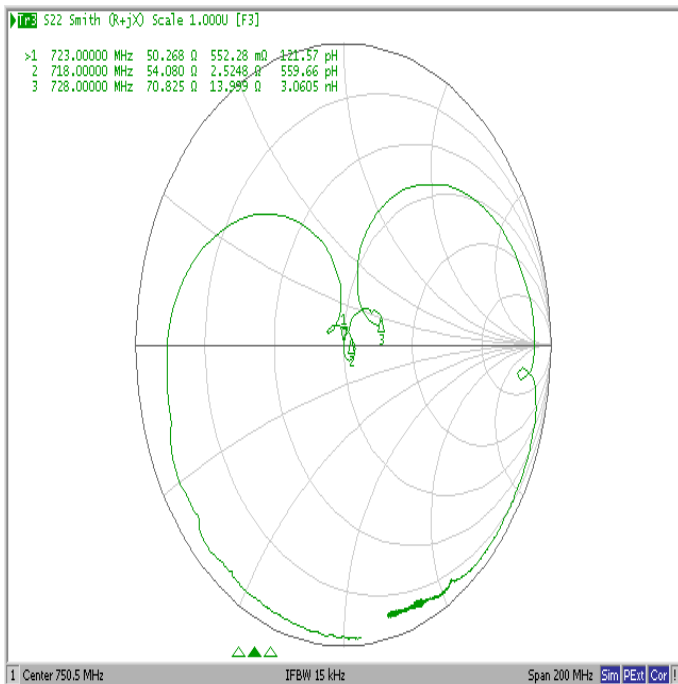


Isolation

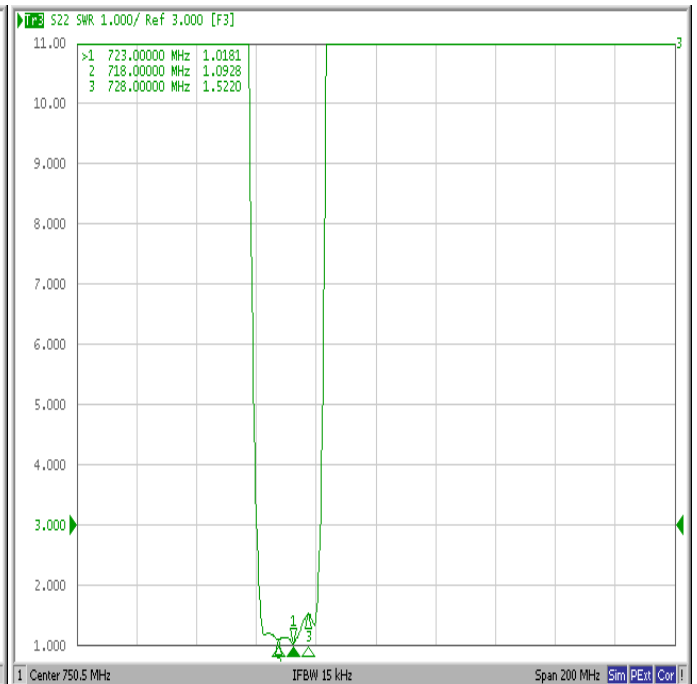


Tx Part

Smith Chart



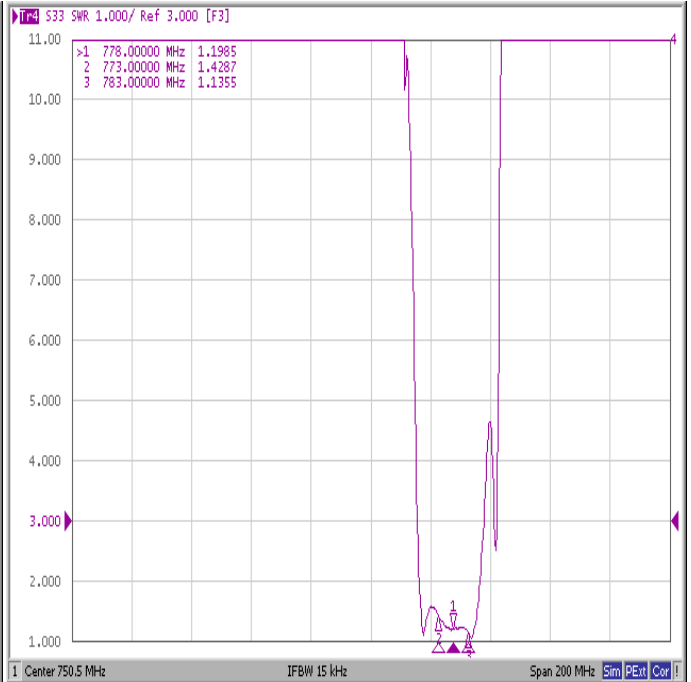
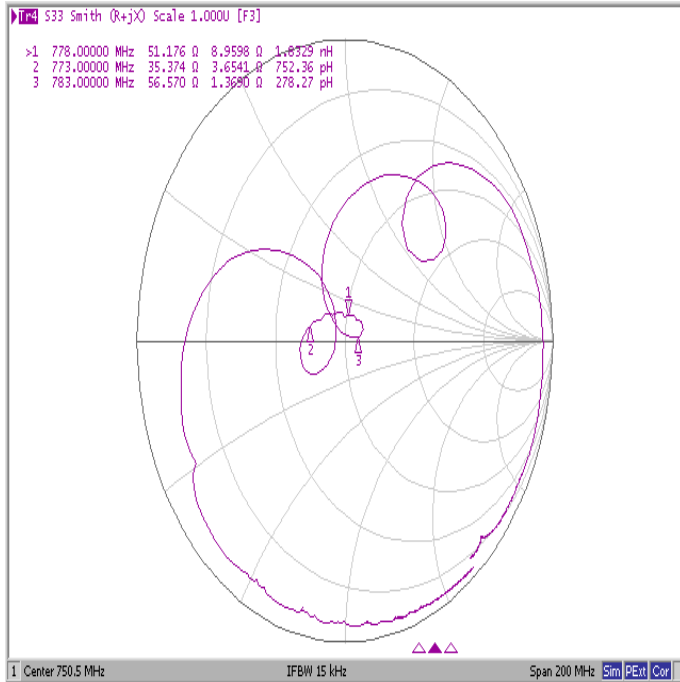
VSWR



Rx Part

Smith Chart

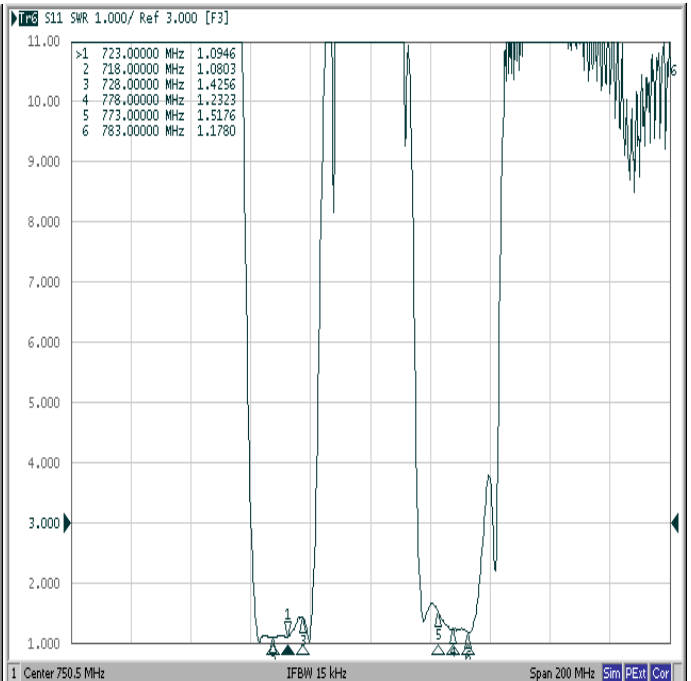
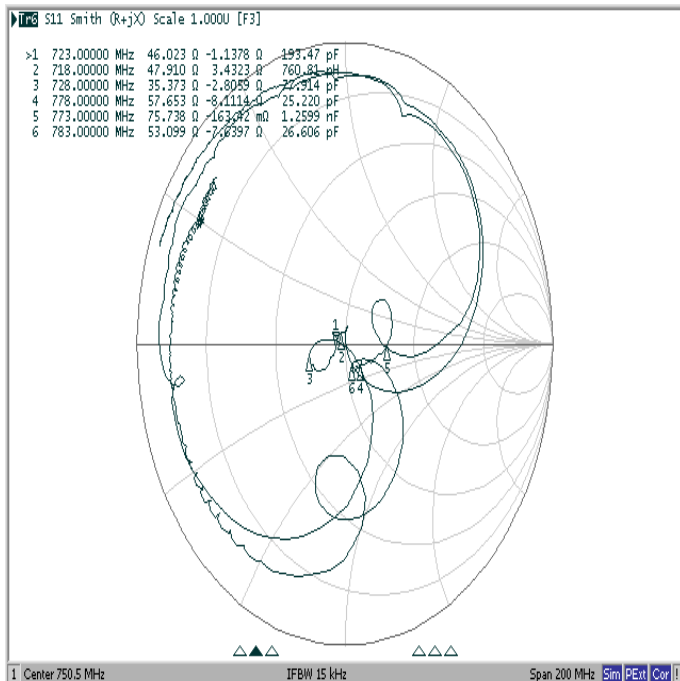
VSWR



Antenna

Smith Chart

VSWR





Wide Span

