

- SAW Duplexer For 710MHz / 740MHz
- Revision 1: July 2012

Electrical Characteristics

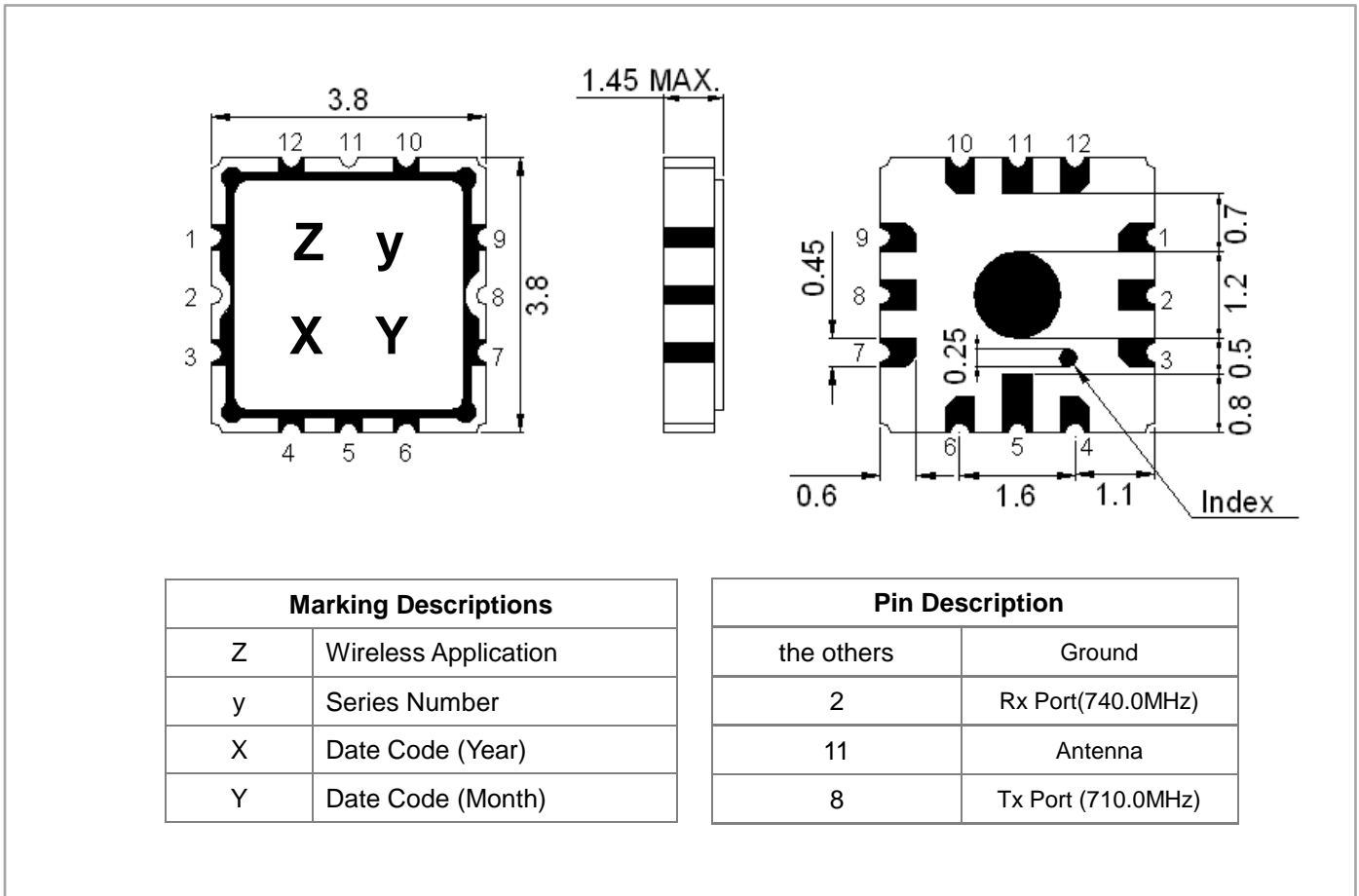
MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Tx Band Maximum Input Power Level	dBm	30dBm > 50000 Hours, CW tone(Ta= +50°C)		
Rx Band Maximum Input Power Level	dBm	30dBm > 50000 Hours, CW tone(Ta= +50°C)		
Ant. Tx. Rx Terminating Impedance	Ω	-	50	-
Package type	P3			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.45

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx_710.0MHz		Specifications			
Insertion Loss	704.0 ~ 716.0	dB	-	2.2	2.5
Bandwidth	704.0 ~ 716.0	MHz	12	20	-
Ripple	704.0 ~ 716.0	dB _{p-p}	-	1.0	1.2
Return Loss	704.0 ~ 716.0	dB	9.5	12	-
Absolute Attenuation	725.0	dB	12	15	-
	734.0 ~ 746.0	dB	45	54	-
	873.0 ~ 885.0	dB	40	42	-
	1042.0 ~ 1054.0	dB	45	48	-
	1468.0 ~ 1432.0	dB	40	46	-
	2112.0 ~ 2148.0	dB	30	42	-

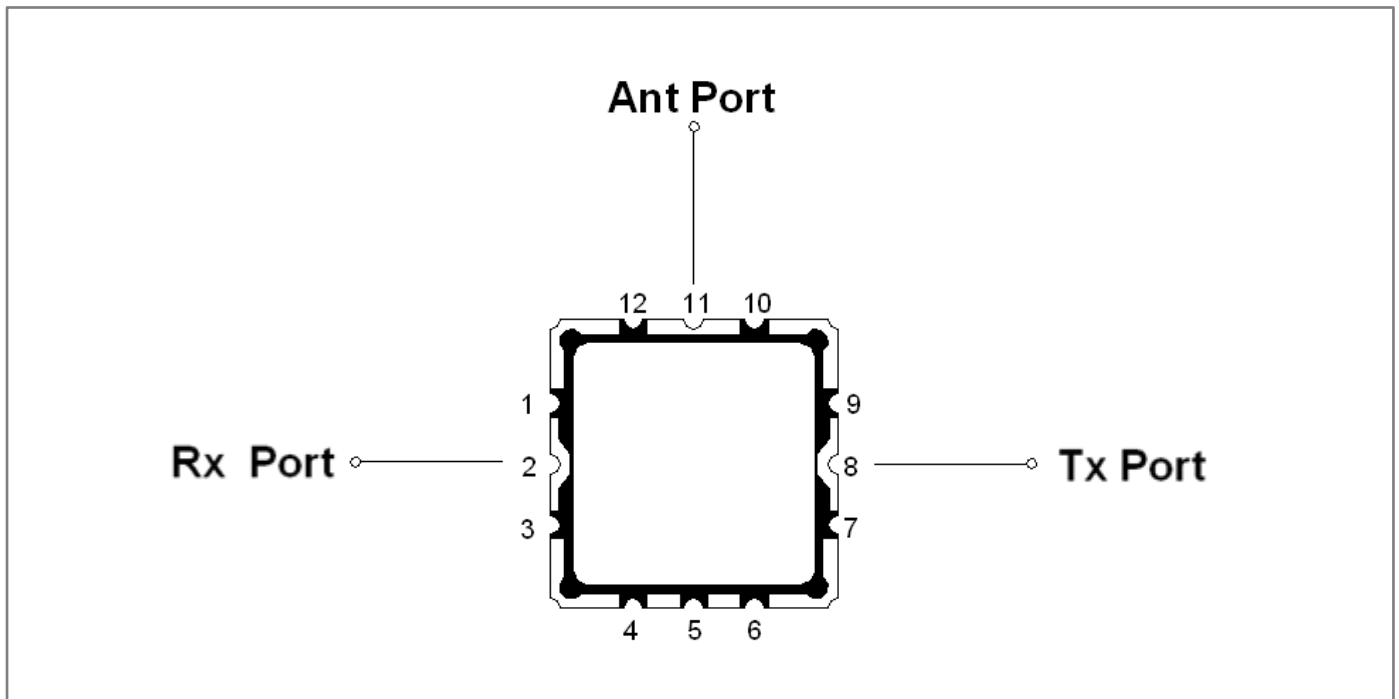
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Rx_740.0MHz		Specifications			
Insertion Loss	734.0 ~ 746.0	dB	-	1.5	2.5
Bandwidth	734.0 ~ 746.0	MHz	12	18	-
Ripple	734.0 ~ 746.0	dB _{p-p}	-	0.9	1.2
Return Loss	734.0 ~ 746.0	dB	9.5	11	-
Absolute Attenuation	D.C. ~ 636.0	dB	35	40	-
	725.0	dB	12	20	-
	776.0 ~ 1000.0	dB	35	44	-
	1000.0 ~ 2000.0	dB	35	42	-
	2000.0 ~ 3000.0	dB	10	16	-
	704.0 ~ 716.0	dB	45	50	-
	664.0 ~ 676.0	dB	35	42	-
	594.0 ~ 606.0	dB	35	40	-
869.0 ~ 894.0	dB	35	46	-	
Rx → Tx		Specifications			
Isolation	D.C. ~ 704.0	dB	45	51	-
	704.0 ~ 716.0	dB	48	50	-
	725.0	dB	35	40	-
	734.0 ~ 746.0	dB	50	60	-
	747.0 ~ 1000.0	dB	40	55	-
	1000.0 ~ 2000.0	dB	35	44	-
	2000.0 ~ 3000.0	dB	10	14	-

***Notes :** Including losses due to Test PCB(0.3dB)

Package Dimensions

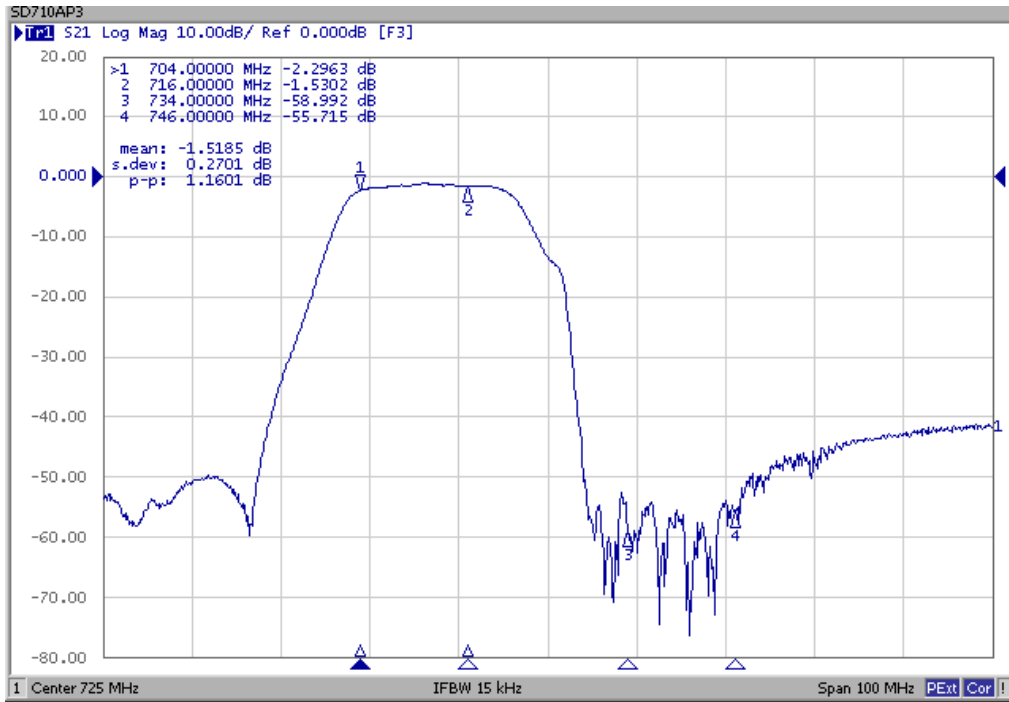


Testing Environment

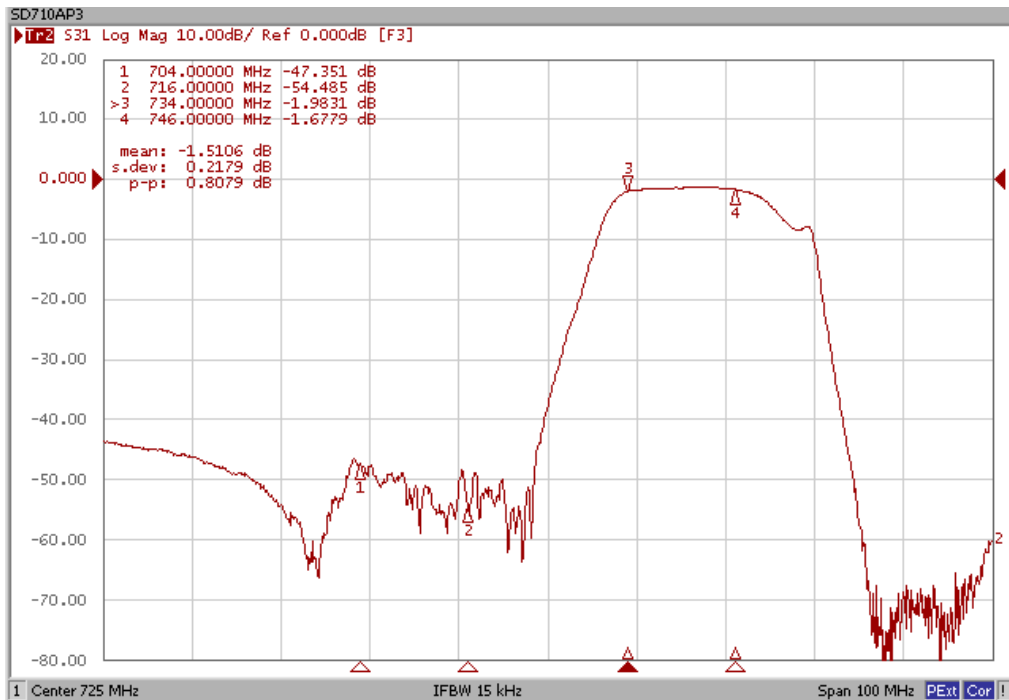


Frequency Characteristics

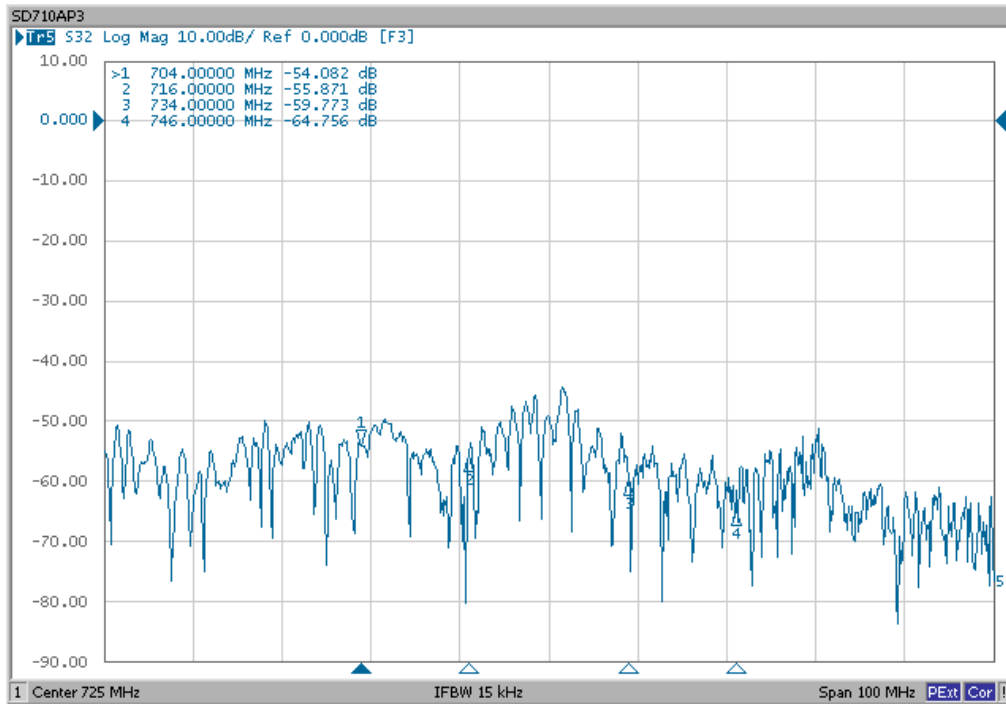
Tx Characteristic



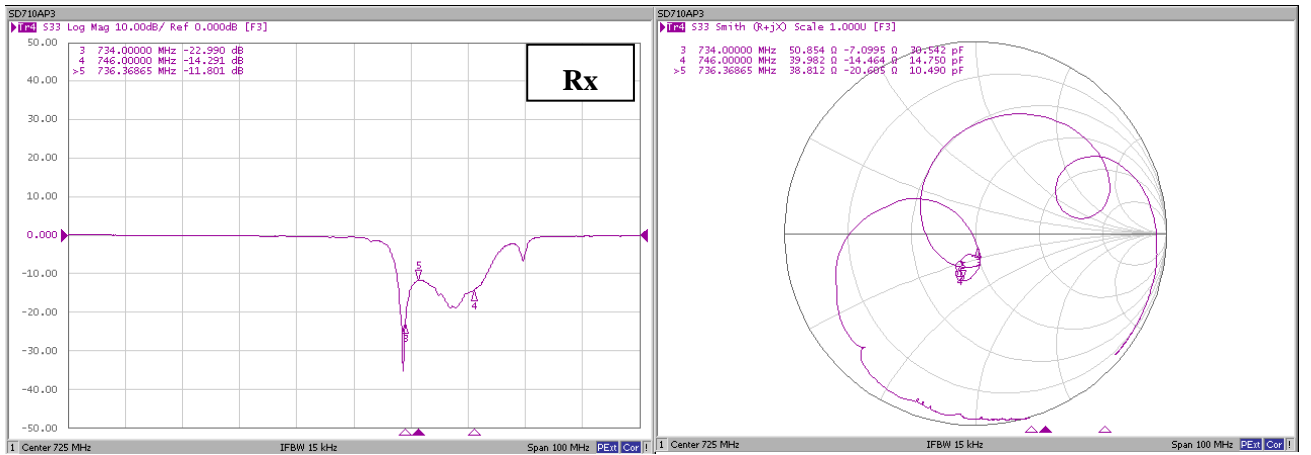
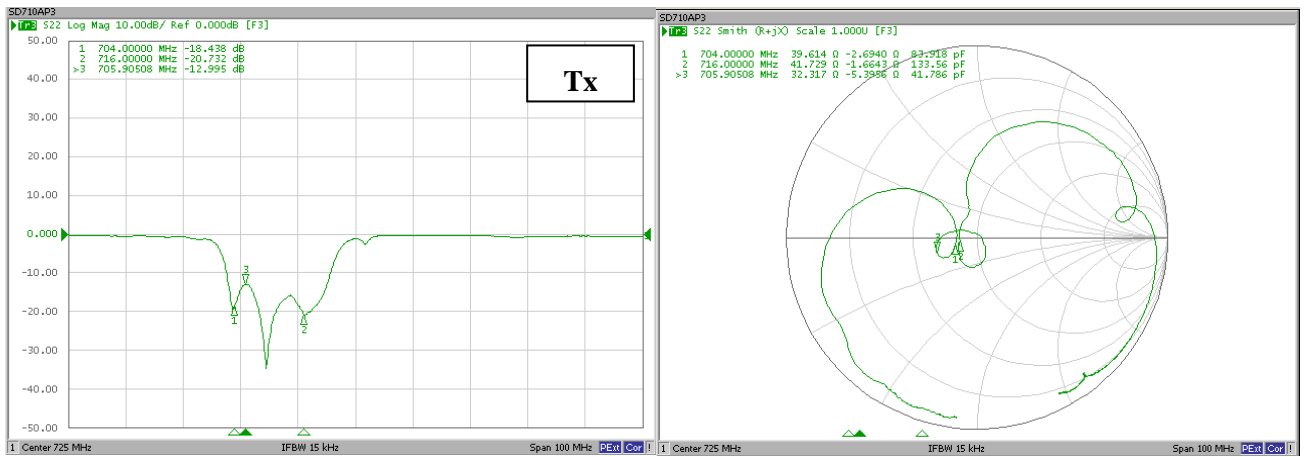
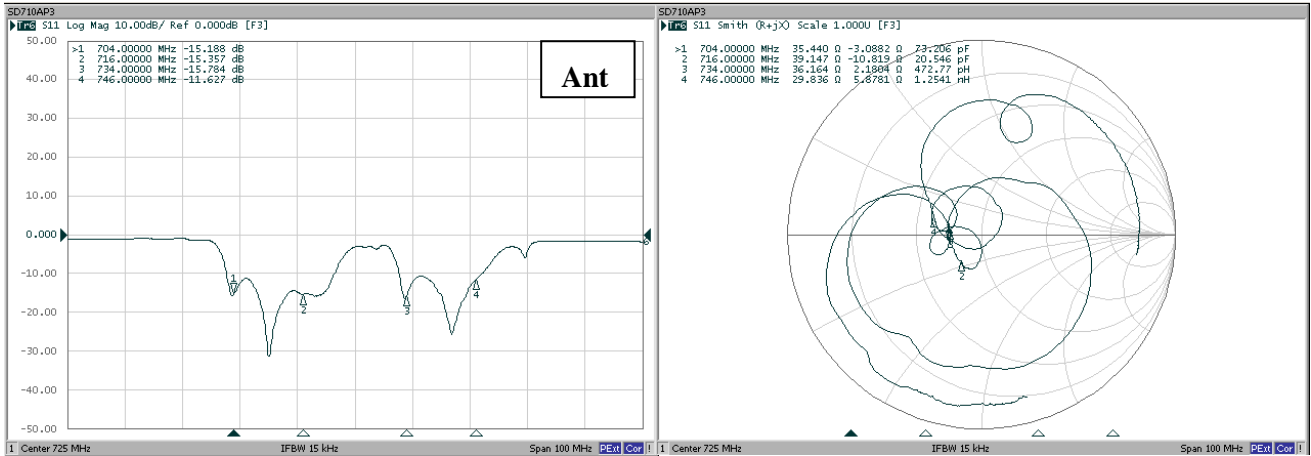
Rx Characteristic



Isolation



Return Loss & Smith Chart



Wide Span

