



Total Solution Provider in Saw Device

SD455AK2

CDMA450 A-Band, SAW Duplexer
Revision 1:



- 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	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Maximum Input Power	W	1.0 W > 50000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	50		
Output Impedance	Ω	50		
Package type & size	K2			
Length x Width	mm ²		5.0 x 5.0	-
Height	mm		-	1.8

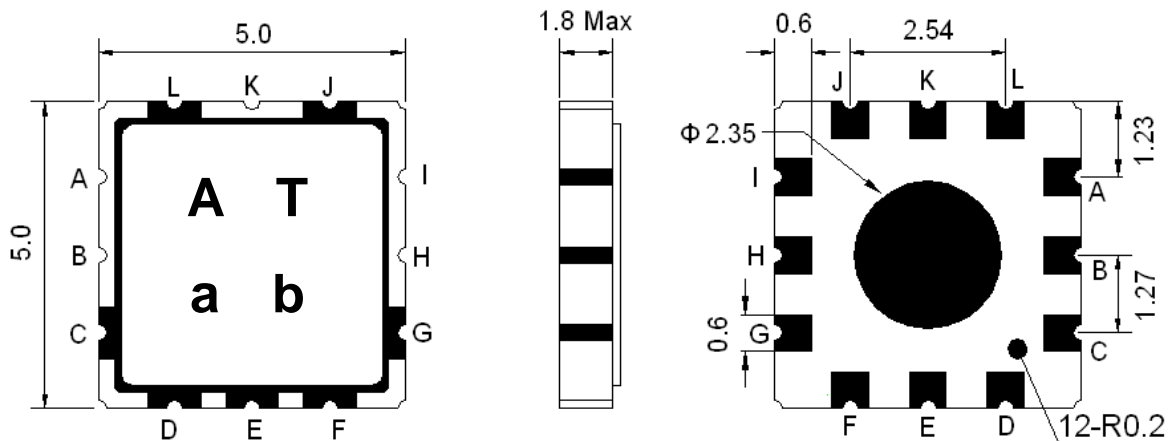
Electrical Specification

Tx → Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	452.5 ~ 457.5	dB	-	2.0	2.8
VSWR	452.5 ~ 457.5	-	-	1.4	2.0
Absolute Attenuation	0.3 ~ 443.0	dB	25	27	-
	462.5 ~ 467.5	dB	37	55	-
	467.5 ~ 1400.0	dB	25	32	-
	1400.0 ~ 2000.0	dB	10	17	-

Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	462.5 ~ 467.5	dB	-	2.6	4.3
VSWR	462.5 ~ 467.5	-	-	1.4	2.0
Absolute Attenuation	0.3 ~ 452.5	dB	25	27	-
	452.5 ~ 457.5	dB	43	52	-
	485.0 ~ 510.0	dB	25	31	-
	510.0 ~ 1200.0	dB	20	30	-
	1200.0 ~ 2000.0	dB	35	43	-

Tx → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	452.5 ~ 457.5	dB	43	53	-
	462.5 ~ 467.5	dB	37	57	-

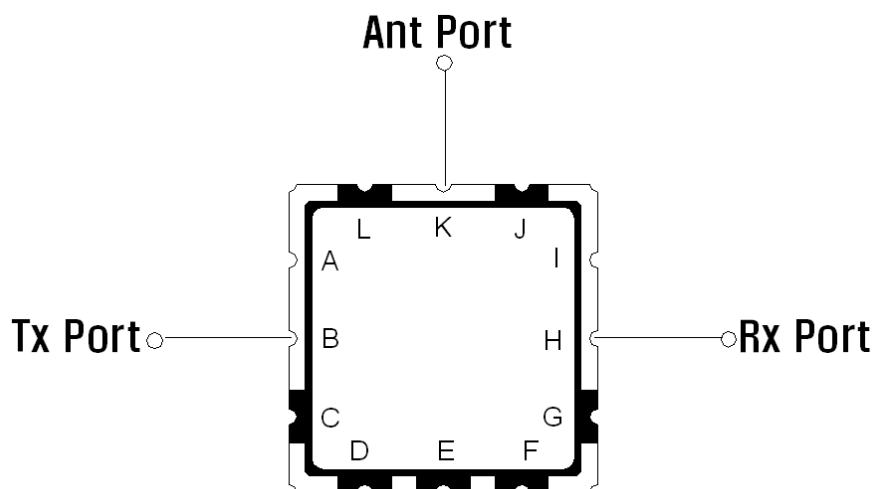
Package Dimensions



Marking Descriptions	
A	Application
T	Series Number
a	Date Code(Year)
b	Date Code(Month)

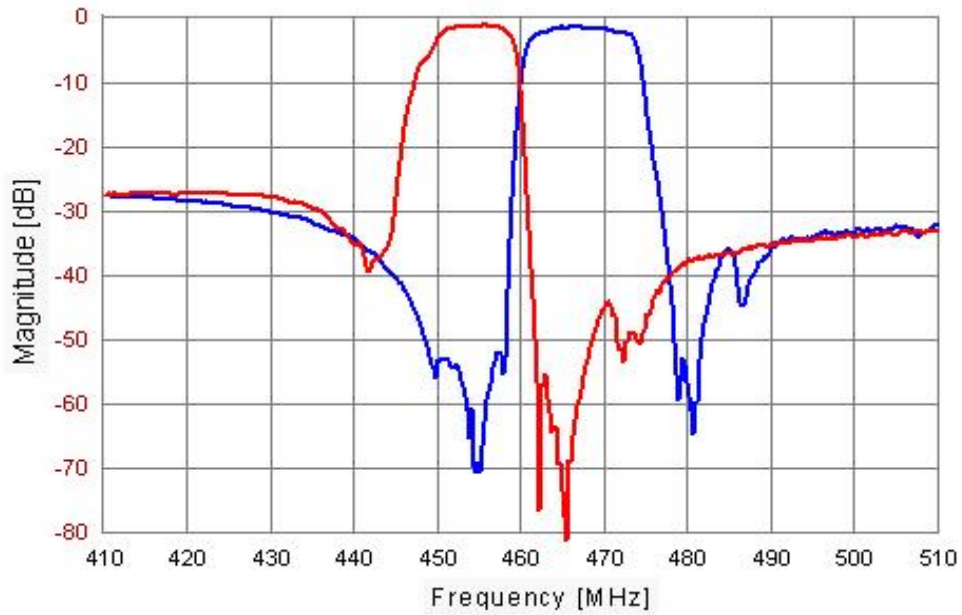
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Receiver
K	Antenna
B	Transmitter

Testing Environment

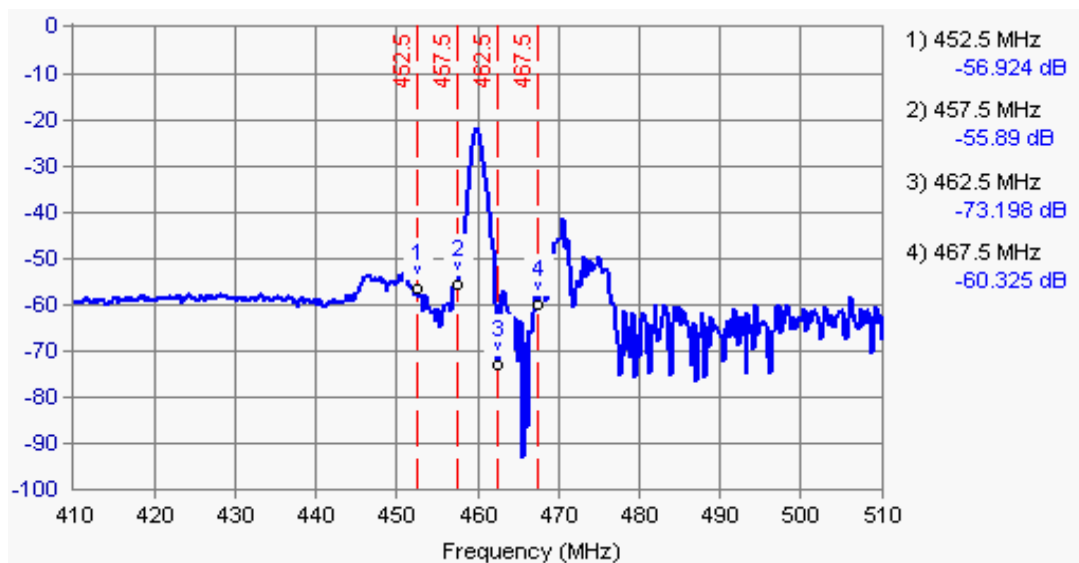


□ Frequency Characteristics

Tx to Ant, Ant to Rx

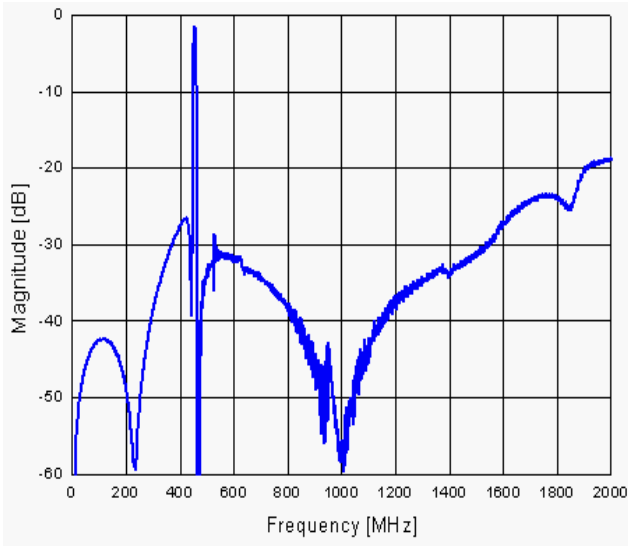


Tx to Rx Isolation

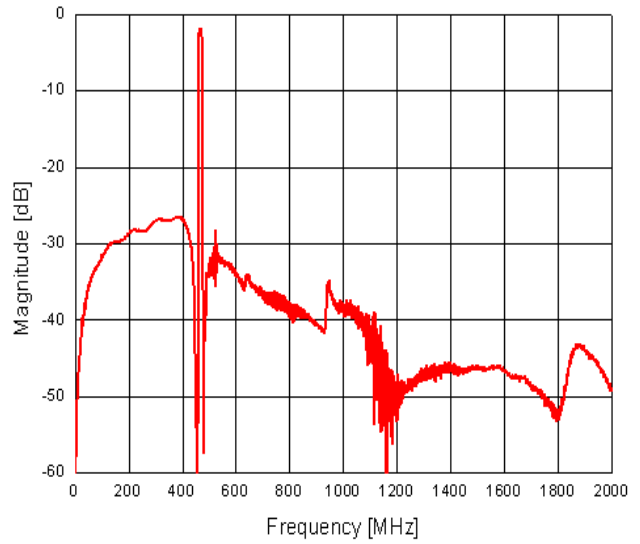




Tx to Ant

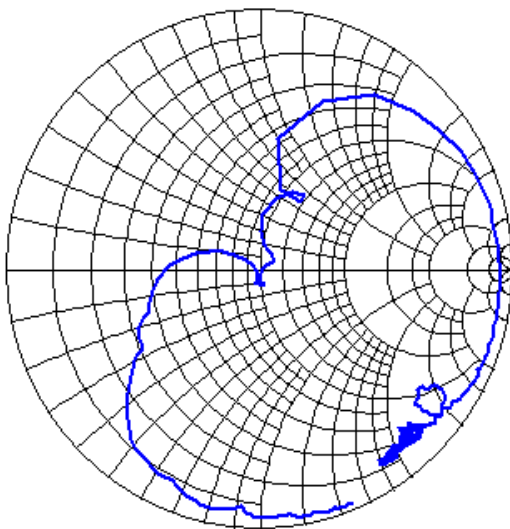


Ant to Rx

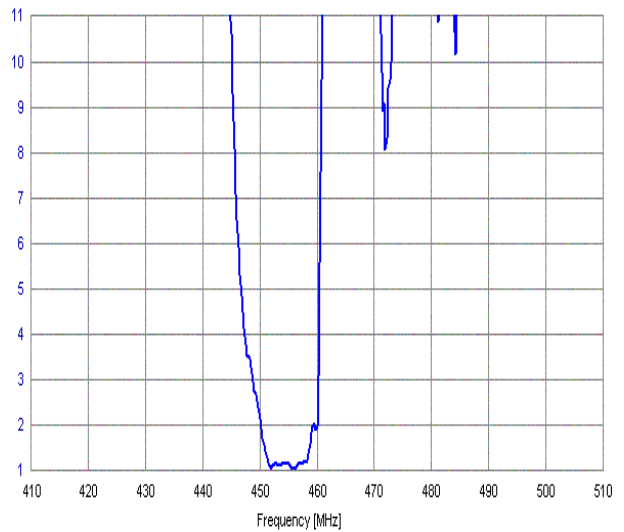


Tx Port

Smith Chart

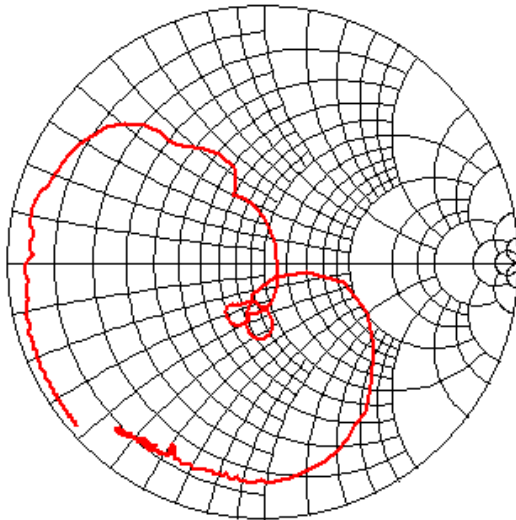


VSWR

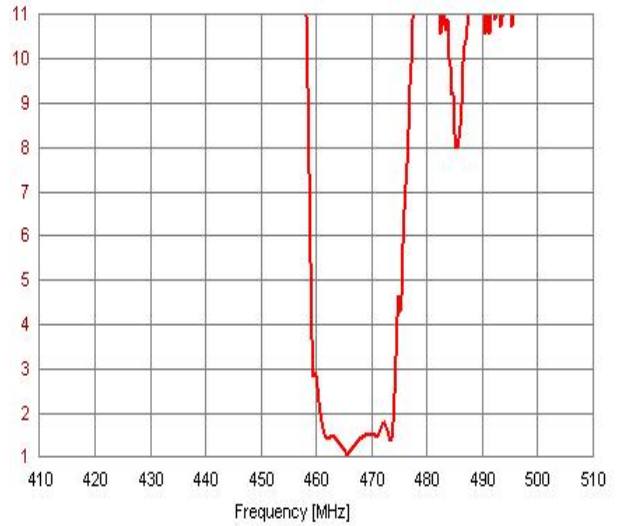


Rx Port

Smith Chart

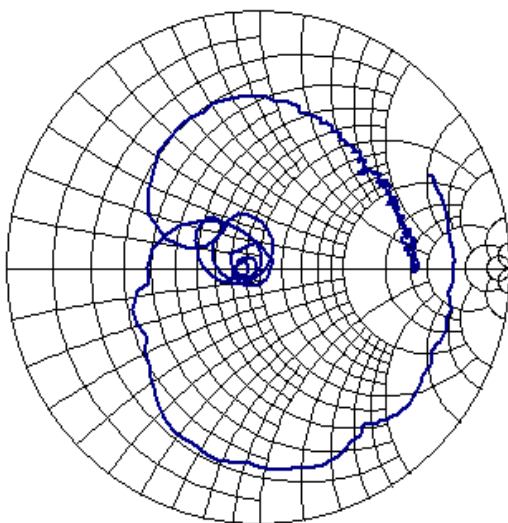


VSWR



Ant Port

Smith Chart



VSWR

