ANATECH ELECTRONICS, INC.

Manufacturer of RF & Microwave Products

ISO 9001 : 2000 REGISTERED FIRM

413-423 MHz Saw Duplexer

P/N: AM413-423SD332

Tx → Ant		Specifications		
Parameters Description	**Condition [MHz]**	**Minimum**	**Typical**	**Maximum**
Insertion Loss	411.6 ~ 415.9	-	2.5 dB	2.8 dB
VSWR	411.6 ~ 415.9	-	1.6	2.1 dB
Absolute Attenuation	0.3 ~ 400	23 dB	26 dB	-
	421.6 ~ 425.9	30 dB	50 dB	-
	425.9 ~ 1700.0	23 dB	27 dB	-
	1700.0 ~ 2000.0	10 dB	17 dB	-

Ant → Rx		Specifications		
Parameters Description	**Condition [MHz]**	**Minimum**	**Typical**	**Maximum**
Insertion Loss	421.6 ~ 425.9	-	3.2 dB	4.3
VSWR	421.6 ~ 425.9	-	1.5	2.2
Absolute Attenuation	0.3 ~ 411.6	20 dB	24 dB	-
	442 ~ 415.9	33 dB	51 dB	-
	442 ~600	20 dB	27 dB	-
	600.0 ~ 1200.0	20 dB	28 dB	-
	1200.0 ~ 2000.0	25 dB	43 dB	-

Tx → Rx		Specifications		
Parameters Description	**Condition [MHz]**	**Minimum**	**Typical**	**Maximum**
Isolation	411.6 ~ 415.9	35 dB	50 dB	-
	421.6 ~ 425.9	32 dB	55 dB	-

Parameters Description	**Minimum**	**Typical**	**Maximum**
Operation Temperature Range	-30°C	-	+80°C
Storage Temperature Range	-40°C	-	+85°C
Maximum DC Voltage	0 V		
Maximum Input Power	1.0 W > 50000 Hours, CW tone(Ta= +50°C) W		
Input Impedance	50Ω		
Output Impedance	50Ω		
Package type & size	K2		
Length x Width	5.0 x 5.0 mm²		
Height	1.8 mm		

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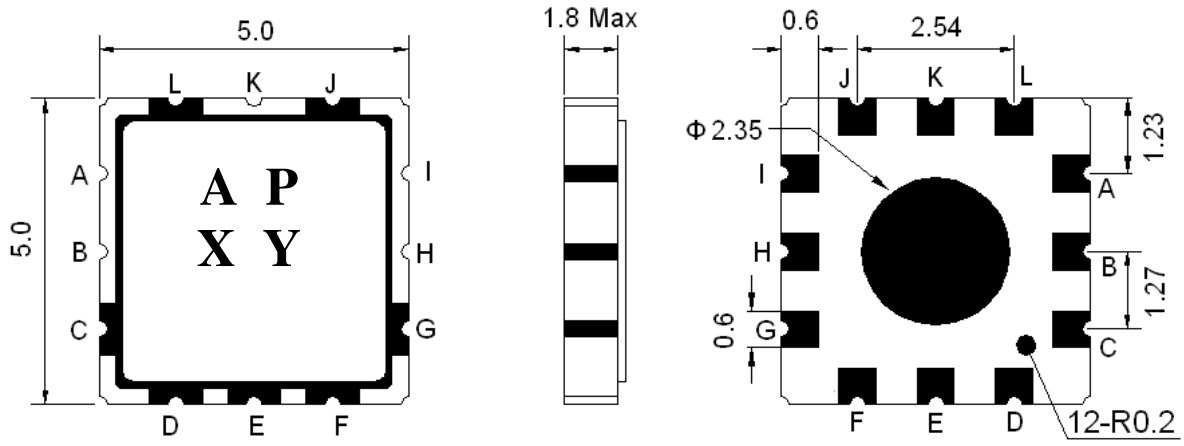
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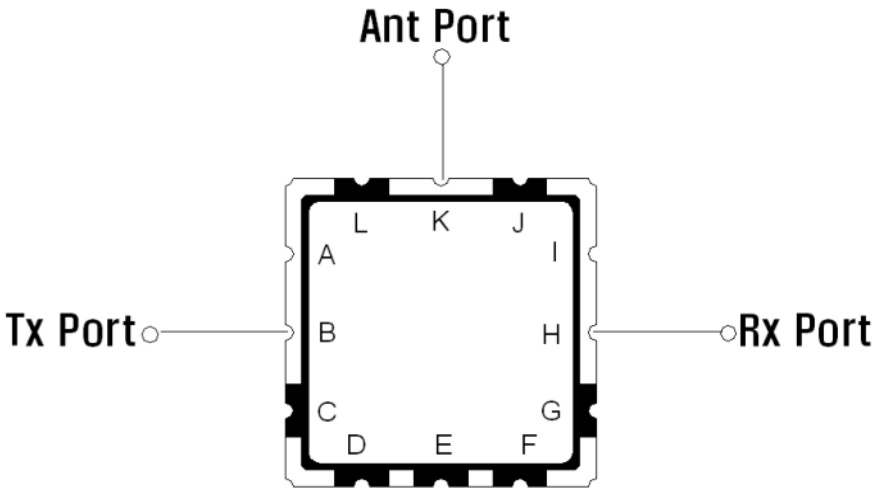
Package Dimensions:



Marking Descriptions	
A	Application
P	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

Testing Environment:



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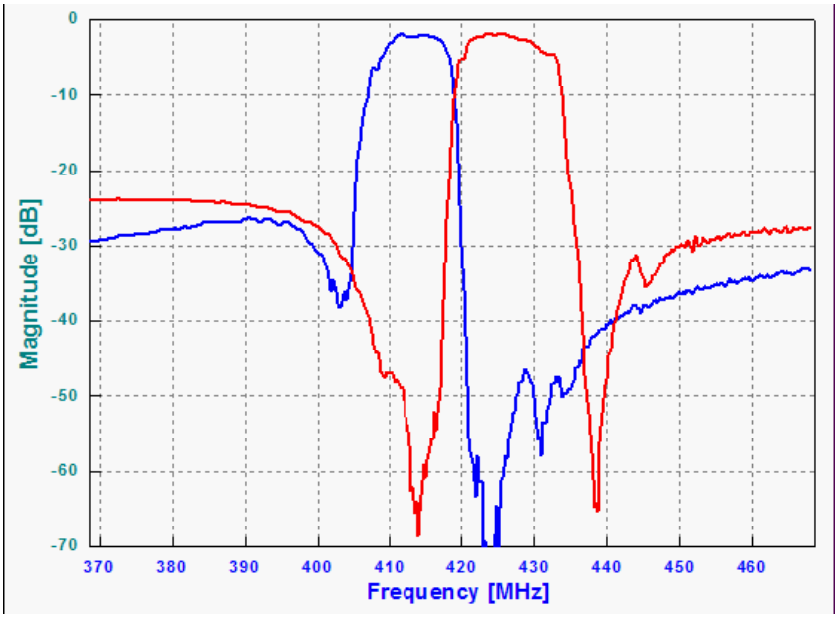
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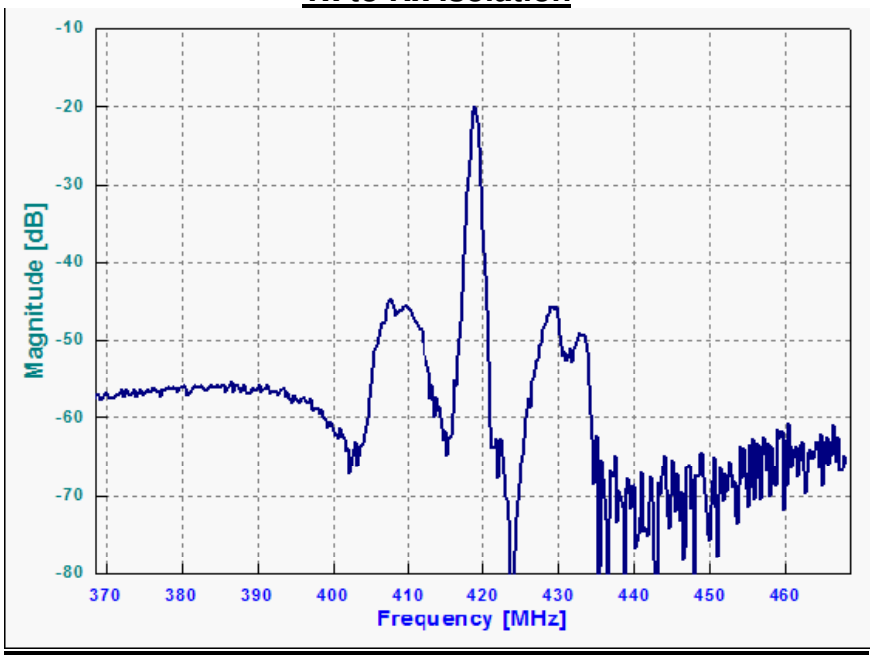
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Frequency Characteristics:

Tx to Ant, Ant to Rx



Tx to Rx Isolation



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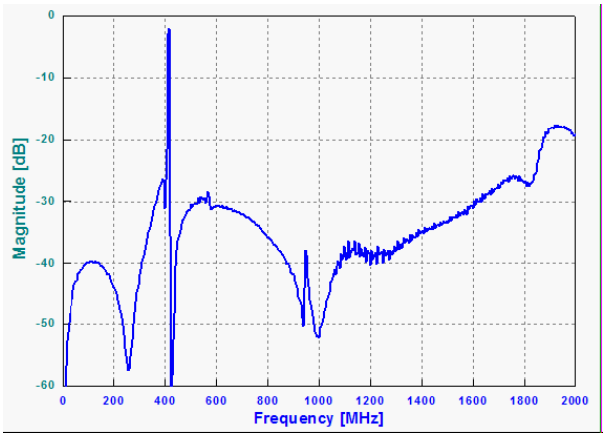
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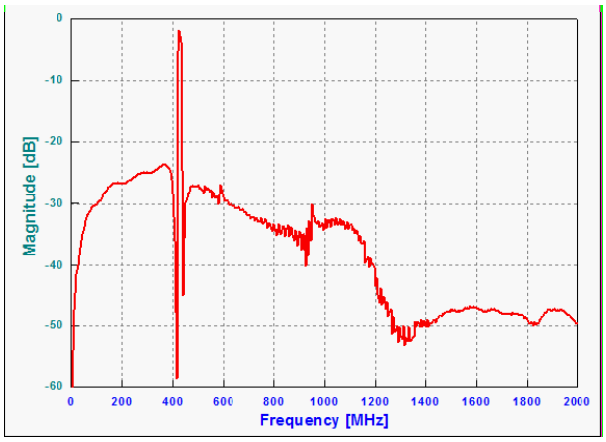
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Frequency Characteristics:

Tx to Ant

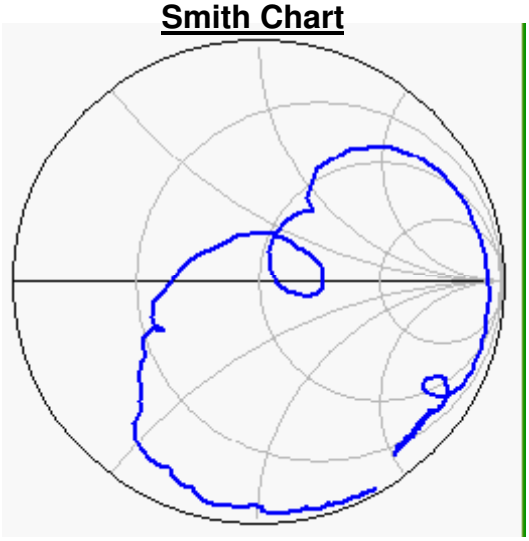


Ant to Rx

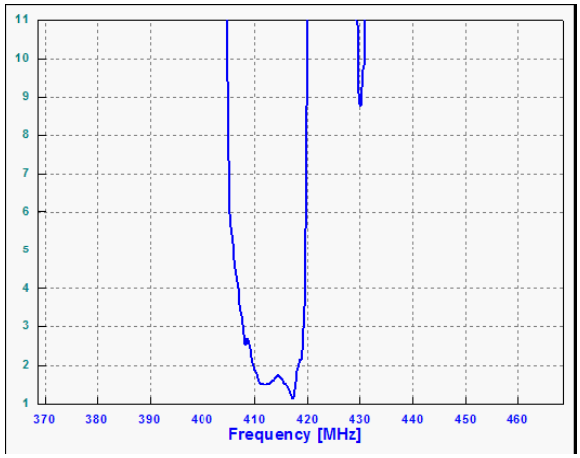


Tx Port

Smith Chart



VSWR



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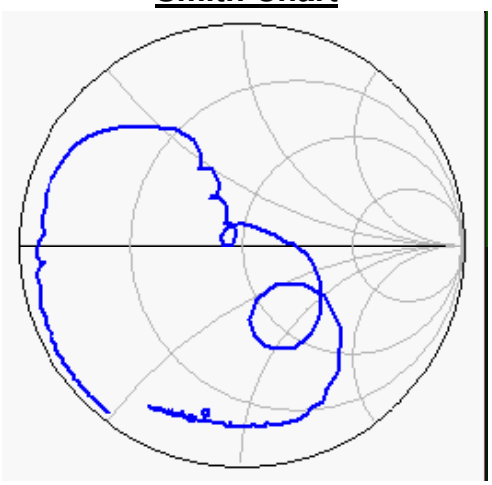
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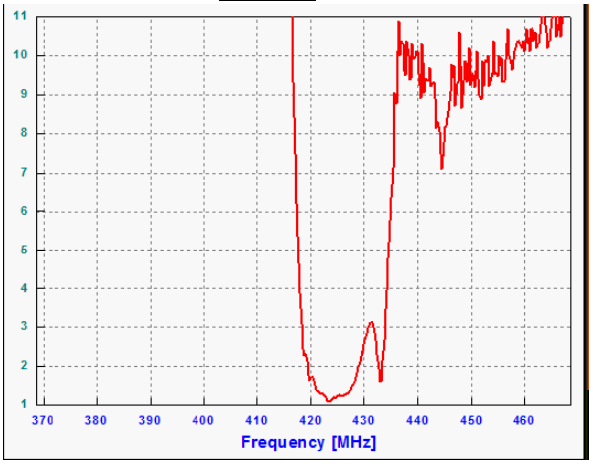
Frequency Characteristics:

Rx Port

Smith Chart

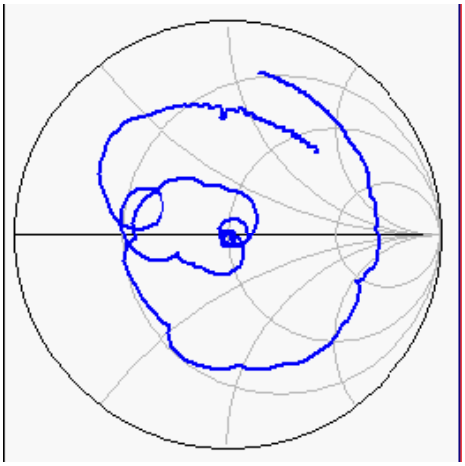


VSWR

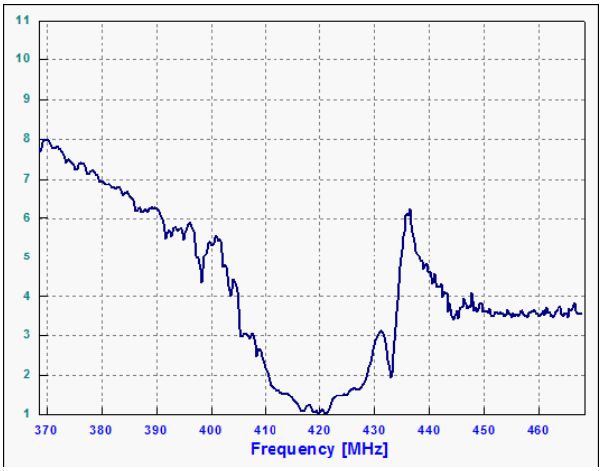


Ant Port

Smith Chart



VSWR



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