

# 813.5 MHz Low-Loss RF SAW Filter

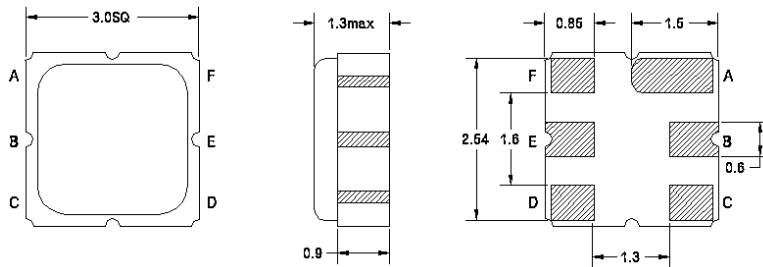
# 163003

## Specifications

Parameter	Unit	Min	Typical	Max
Center Frequency	MHz	-	813.5	-
Insertion Loss within 806 ~ 821 MHz	dB	-	2.2	3.0
Source Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	$\Omega$	-	50	-
Operating Temperature Range	$^{\circ}\text{C}$	-30	-	+70
Group Delay Ripple within 806 ~ 821 MHz	ns <sub>p-p</sub>	-	15	30
VSWR within 806 ~ 821 MHz	dB <sub>p-p</sub>	-	1.7	2.0
Attenuation:				
851.0 ~ 866.0 MHz	dB	40	50	-
935.0 ~ 940.0 MHz	dB	35	40	-
960.65 ~ 979.65 MHz	dB	35	41	-
1115.30 ~ 1134.30 MHz	dB	37	42	-
1269.95 ~ 1288.95 MHz	dB	40	51	-
1612.0 ~ 1650.0 MHz	dB	35	43	-
1650.0 ~ 2600 MHz	dB	25	30	-
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	20
Package type & size				
Length X Width	mm <sup>2</sup>	-	3.0 X 3.0	-
Height	mm	-	-	1.3

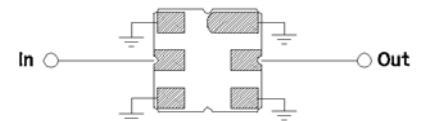
Notes: No Matching Network (Ref. Testing Environment Circuit as shown below).

## Package Outline



PIN Descriptions	
IN	E
Out	B
Ground	A,C,D,F

## Testing Environment



Source & Load Impedance 50 $\Omega$

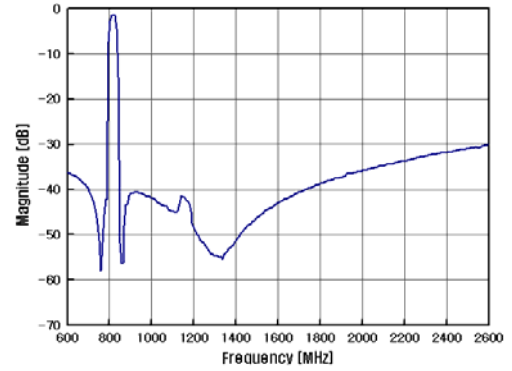
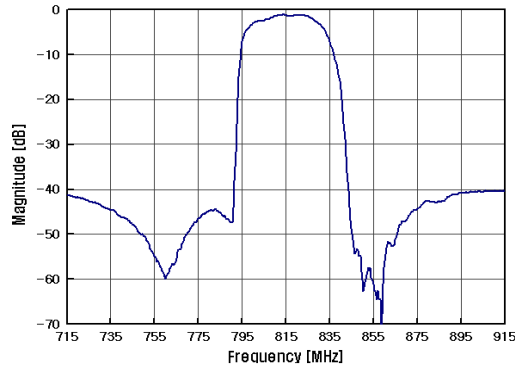
SAW PRODUCTS

COM DEV

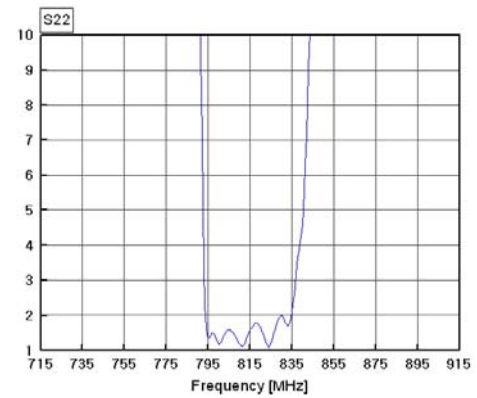
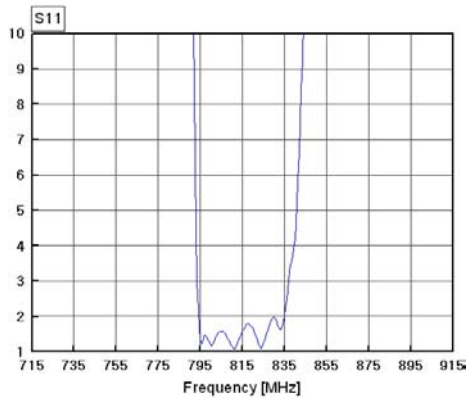
# 813.5 MHz Low-Loss RF SAW Filter

163003

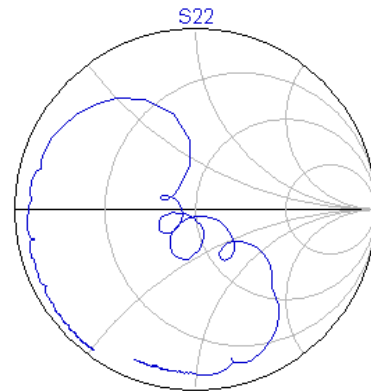
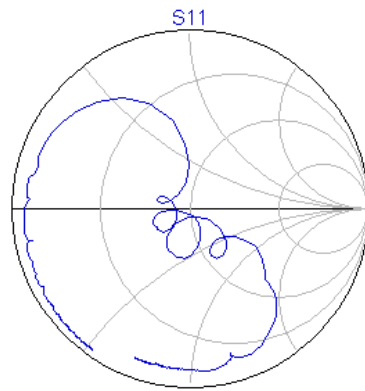
## Frequency Response



## VSWR



## Smith Chart



SAW PRODUCTS

COM DEV