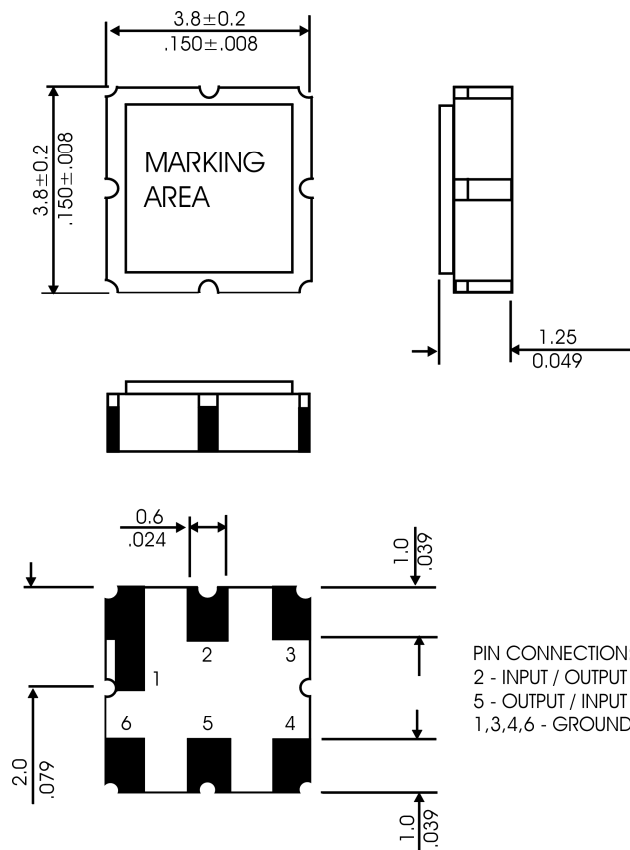


## RF SAW BANDPASS FILTER RSF-460.000-20000-3838-TR-NS4

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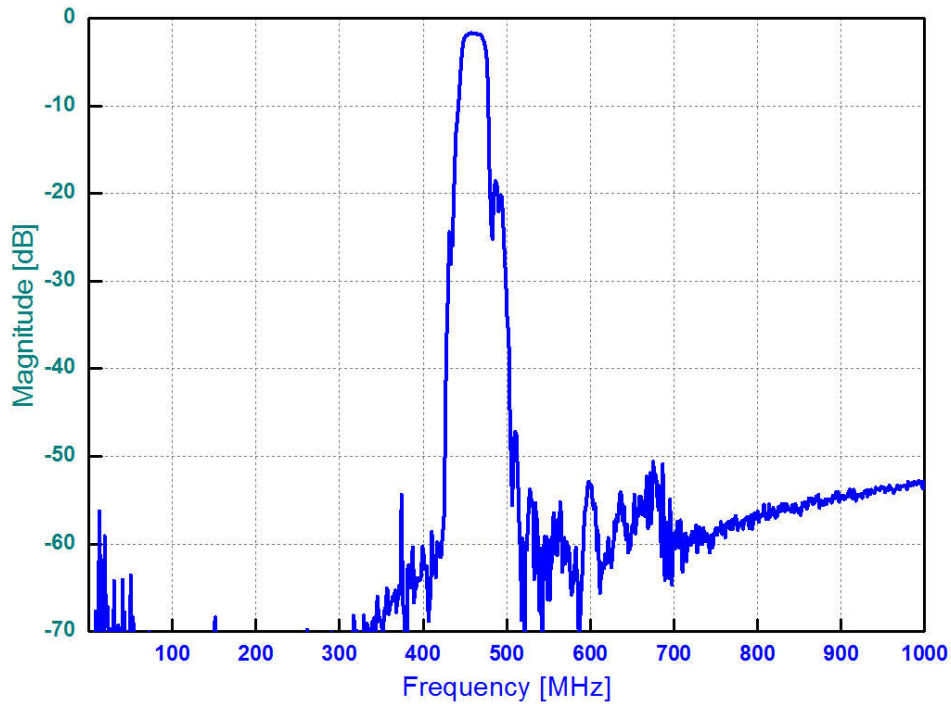
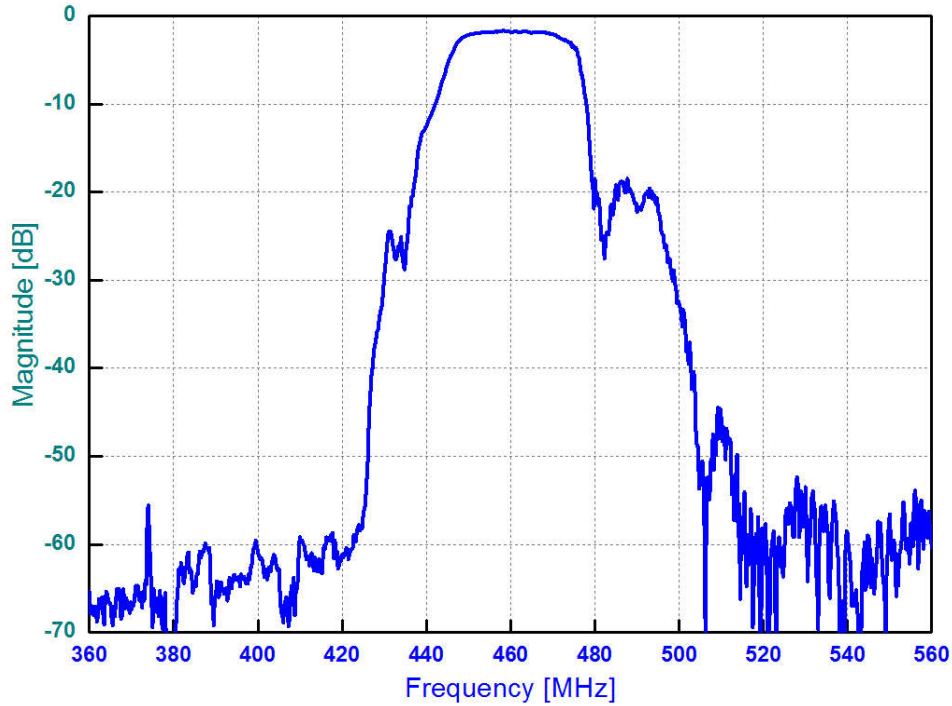
Items	Specification	Unit
Nominal Frequency (fo)	460.000	MHz
Pass Bandwidth	20000	kHz
Insertion Loss in BW	3.2	dB Max ⇄
Amplitude Ripple in BW	1.5	dB Max ⇄
Return Loss in BW	10	dB min ⇄
Absolute Attenuation	0.1 MHz ~ 300 MHz	45 dB min
	300 MHz ~ 380 MHz	45 dB min
	380 MHz ~ 430 MHz	20 dB min
	480 MHz ~ 500 MHz	15 dB min
	504.825 MHz ~ 524.825 MHz	35 dB min
	559.65 MHz ~ 579.65 MHz	50 dB min
	669.3 MHz ~ 689.3 MHz	40 dB min
689.3 MHz ~ 1000 MHz	45 dB min	
DC Voltage, maximum	5 VDC	⇄
Input Power, maximum	10 dBm	⇄
Terminating Impedance	50Ω	
Operation Temperature	-40°C to +85°C	⇄
Storage Temperature	-40°C to +85°C	⇄

### Dimension



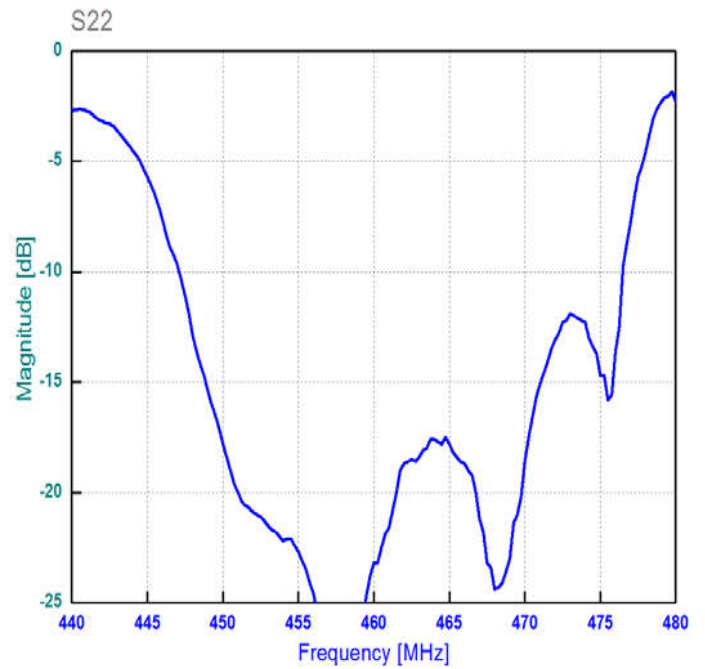
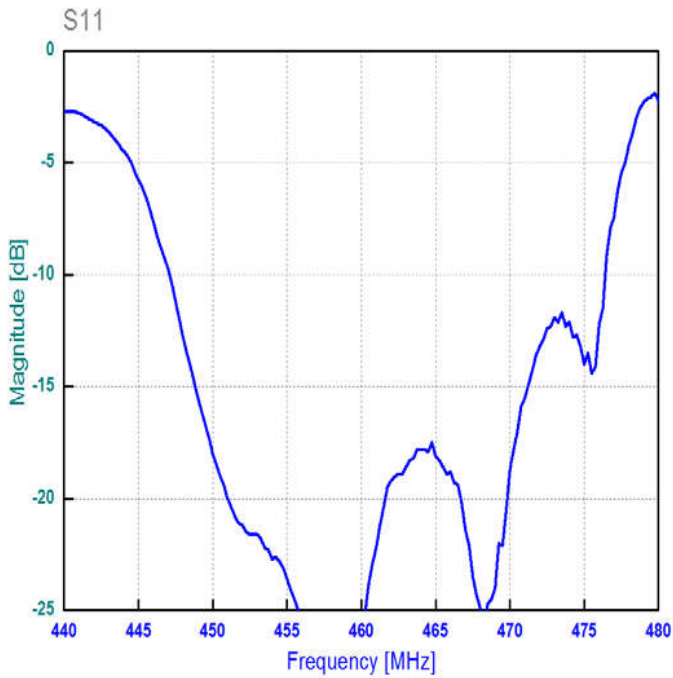
**Frequency Characteristics**

**Frequency Response**

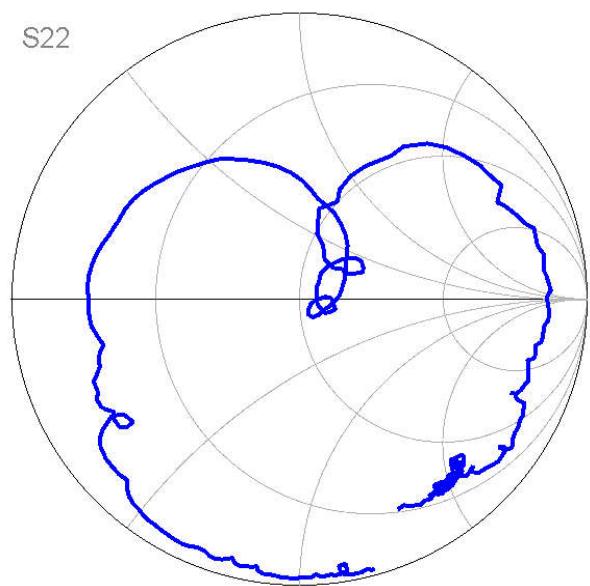
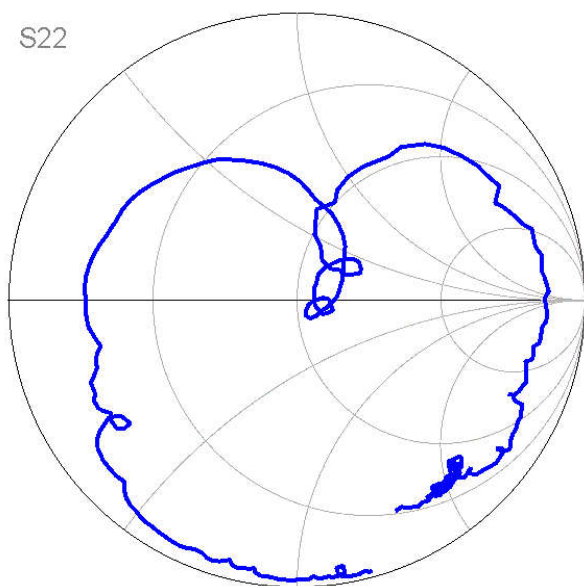


### Frequency Characteristics (continued)

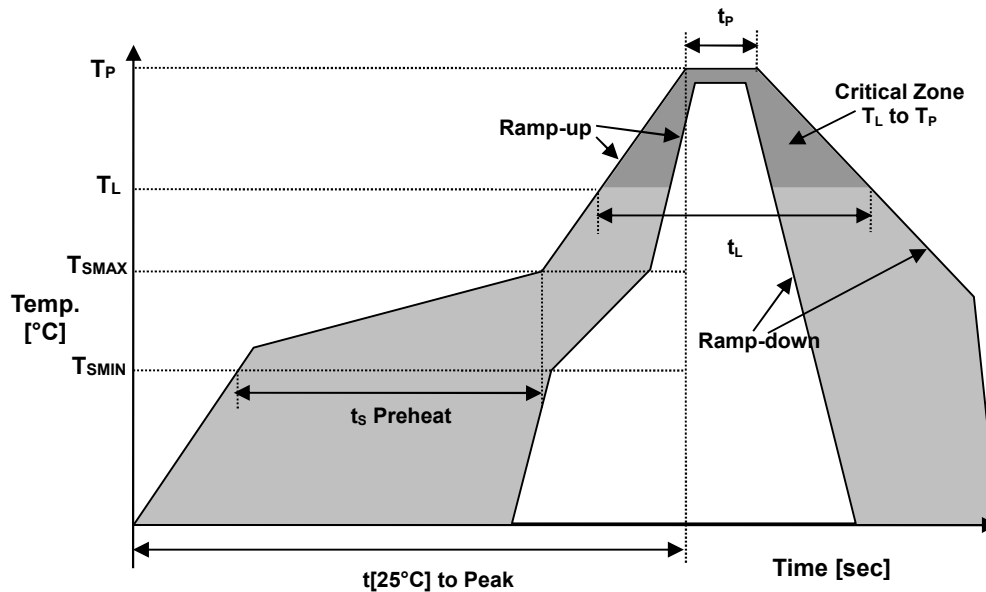
#### Return Loss



#### Smith Chart



### REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	$T_{SMIN}$	150°C
Temperature Max Preheat	$T_{SMAX}$	200°C
Time ( $T_{SMIN}$ to $T_{SMAX}$ )	$t_s$	60-180 sec.
Temperature	$T_L$	217°C
Peak Temperature	$T_P$	260°C
Ramp-up rate	$R_{UP}$	3°C/sec max.
Ramp-down rate	$R_{DOWN}$	6°C/sec max.
Time within 5°C of Peak Temperature	$t_p$	10 sec.
Time $t[25^\circ\text{C}]$ to Peak Temperature	$t[25^\circ\text{C}]$ to Peak	480 sec.
Time	$t_L$	60-150 sec.

### Environmental

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
TERMINATION FINISH	Au
REACH – SVHC	Compliant
RoHS 2	6/6
PACKAGING	TAPE & REEL



April 2016