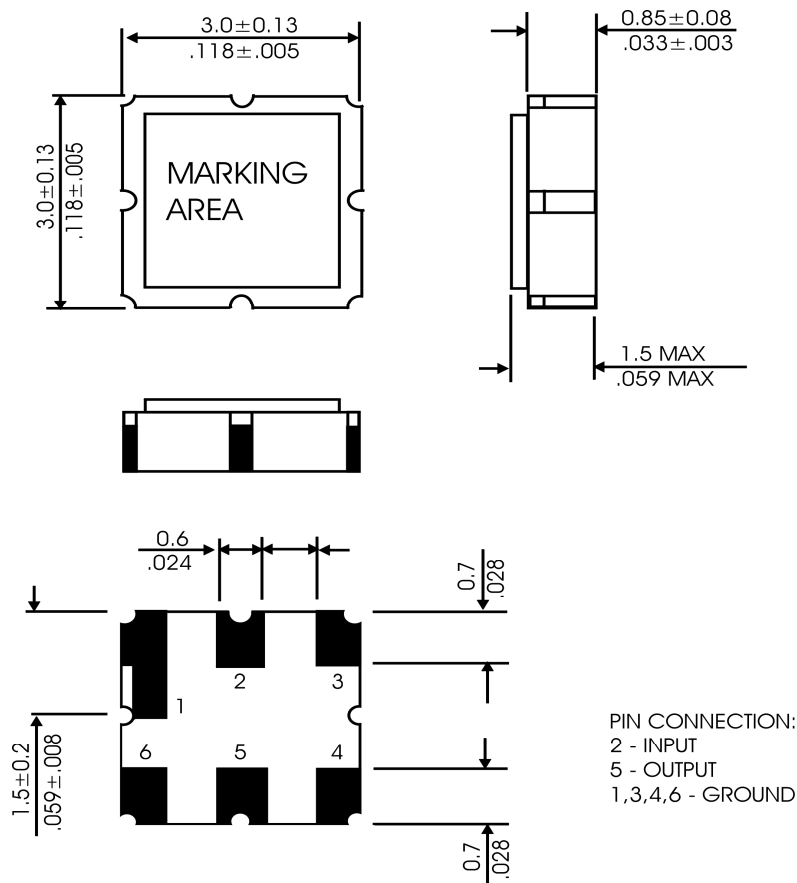


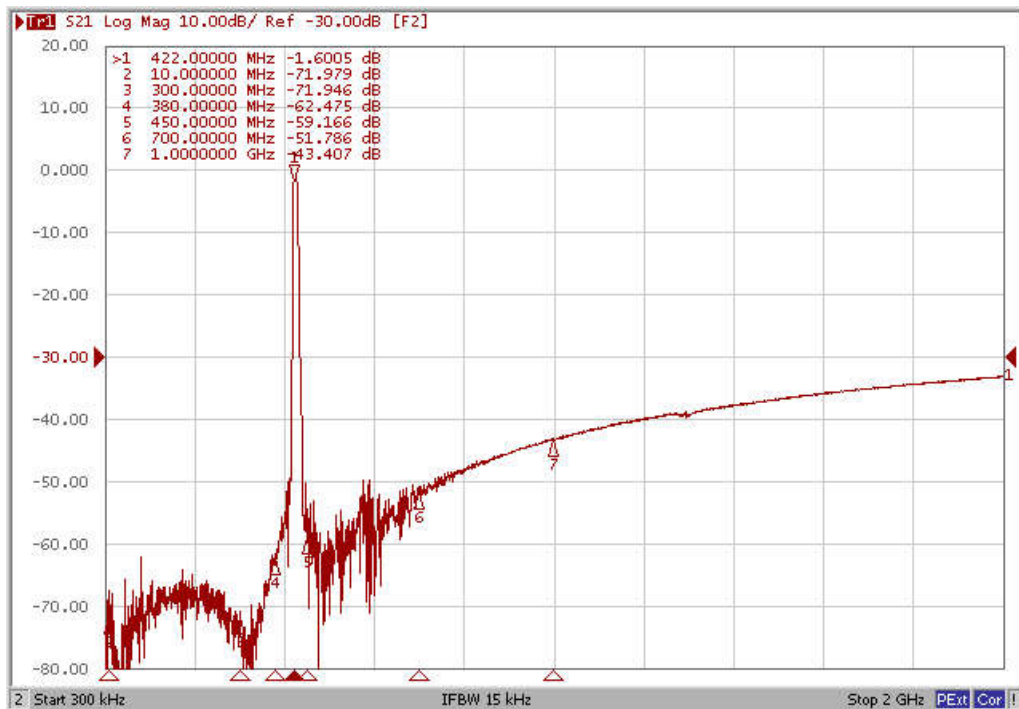
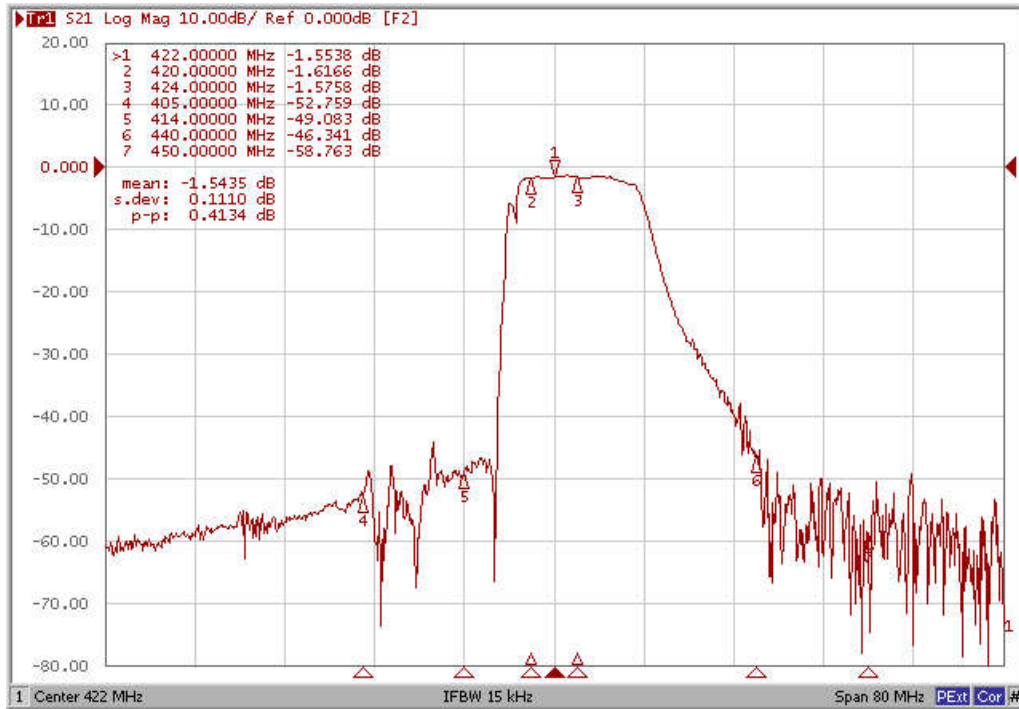
Items		Specification	Unit
Center frequency (Fo)		422.000	MHz
Bandwidth		4000	KHz
Insertion Loss in BW		2.9	dB Max
Amplitude Variation in BW		1.5	dB
VSWR in BW		2.0	--
Group Delay Ripple		120	ns
Absolute Attenuation	10 MHz ~ 300 MHz	60	dB min
	300 MHz ~ 380 MHz	55	dB min
	380 MHz ~ 405 MHz	45	dB min
	414 MHz	40	dB min
	440 MHz ~ 450 MHz	35	dB min
	450 MHz ~ 700 MHz	45	dB min
	700 MHz ~ 1000 MHz	40	dB min
RF Power		20 dBm Max	
DC Voltage		6 V	
In/Out Impedance		50 Ω	
Operation Temperature		-40°C to +85°C	
Storage Temperature		-40°C to +85°C	

### Dimension



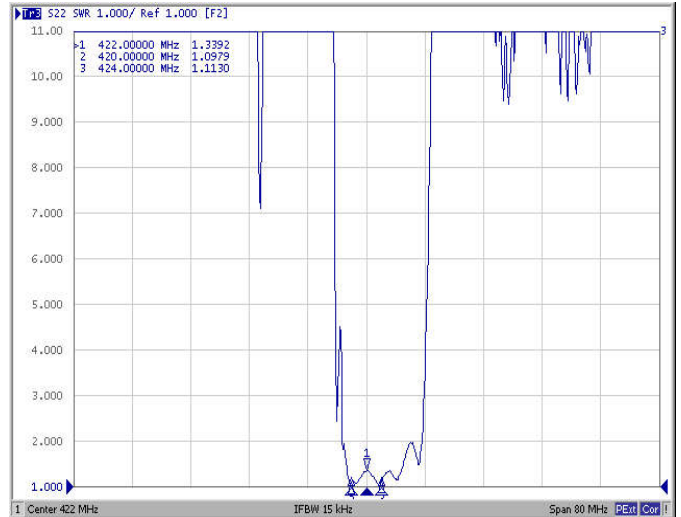
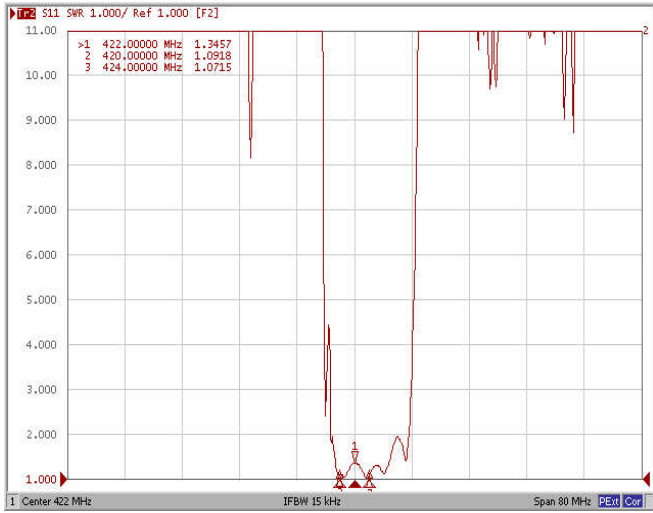
### Frequency Characteristics

#### Frequency Response

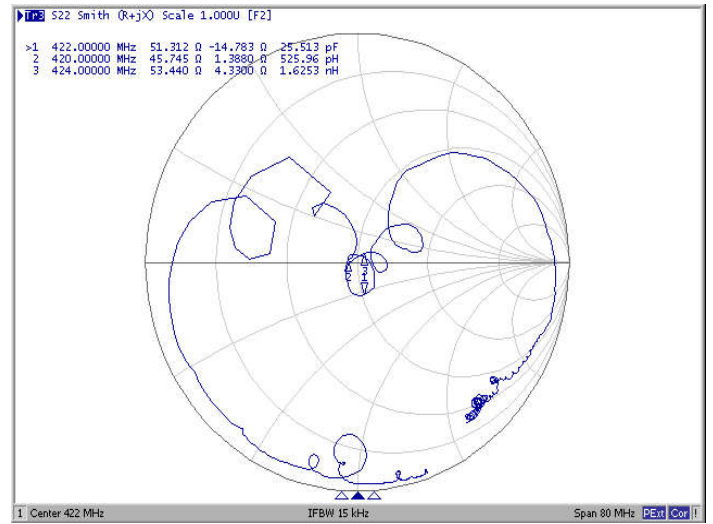
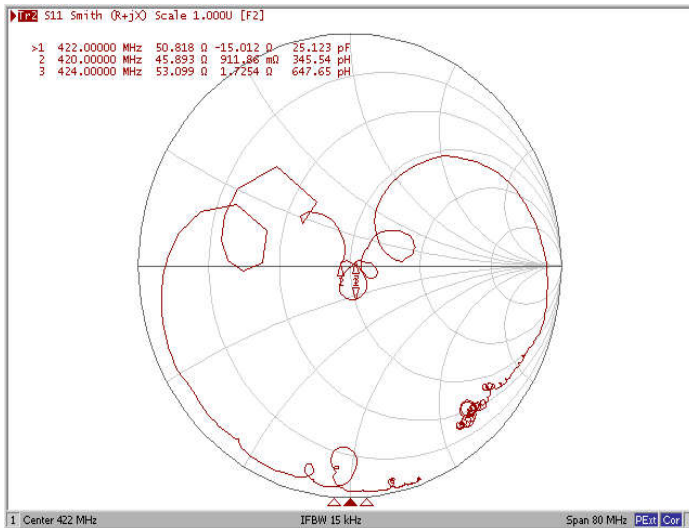


### Frequency Characteristics (continued)

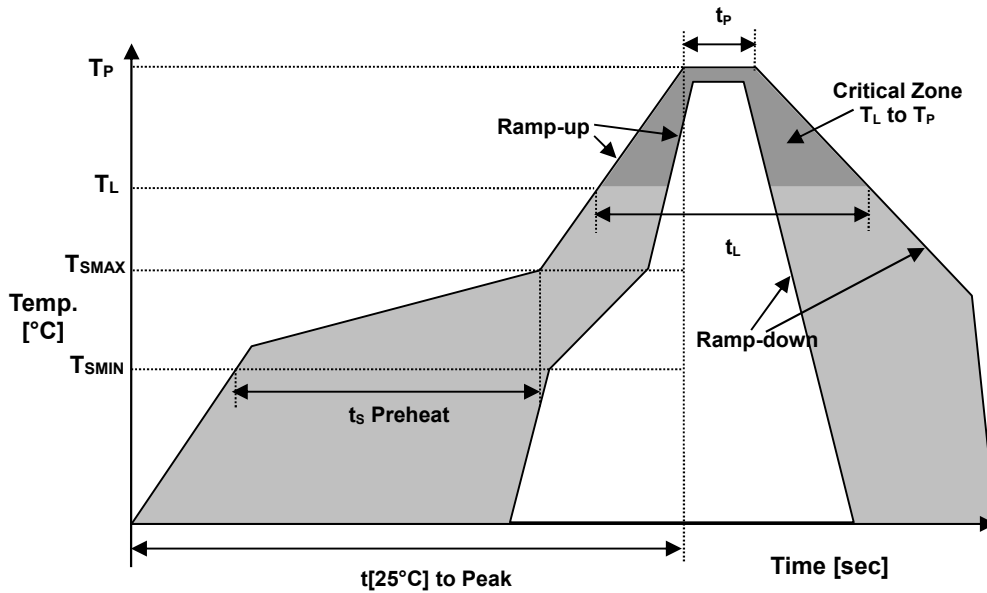
#### VSWR



#### 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
REACH – SVHC	Compliant
RoHS 2	6/6

April 2016