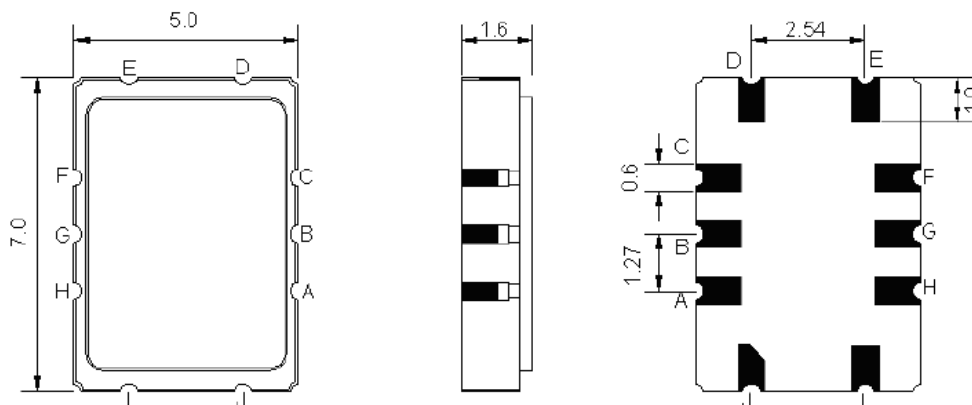


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Items		Specification	Unit
Center frequency(Fo)		138.240	MHz
Insertion Loss at Fo, typ/max		9.6 / 11.5	dB
Passband Ripple Variation (128.24~148.24MHz), typ/max		0.3 / 1.0	dB _{P-P}
Group Delay Variation (128.24~148.24MHz), typ/max		25 / 50	ns
Absolute Delay at Fo, typ		0.72	μs
Bandwidth at -1.0dB, typ		22.4	MHz
Bandwidth at -3.0dB, typ		23.7	MHz
Bandwidth at -40.0dB, typ		30.0	MHz
Relative Attenuation min/typ	0 ~ 108.24 MHz	-54 / -58	dB
	108.24 MHz ~ 117.52 MHz	-50 / -53	dB
	122.88 MHz	-45 / -53	dB
	220.4 MHz ~ 271.12 MHz	-58 / -75	dB
	271.12 MHz ~ 1000 MHz	-40 / -60	dB
Temperature Coefficient, typ		-86	ppm/°C
Source Impedance (single ended)		50	Ω
Load Impedance (single ended)		50	Ω
Input power, max		10	dBm
DC Voltage, max		10	V
Operating Temperature Range		-40°C to +85°C	
Storage Temperature		-40°C to +85°C	

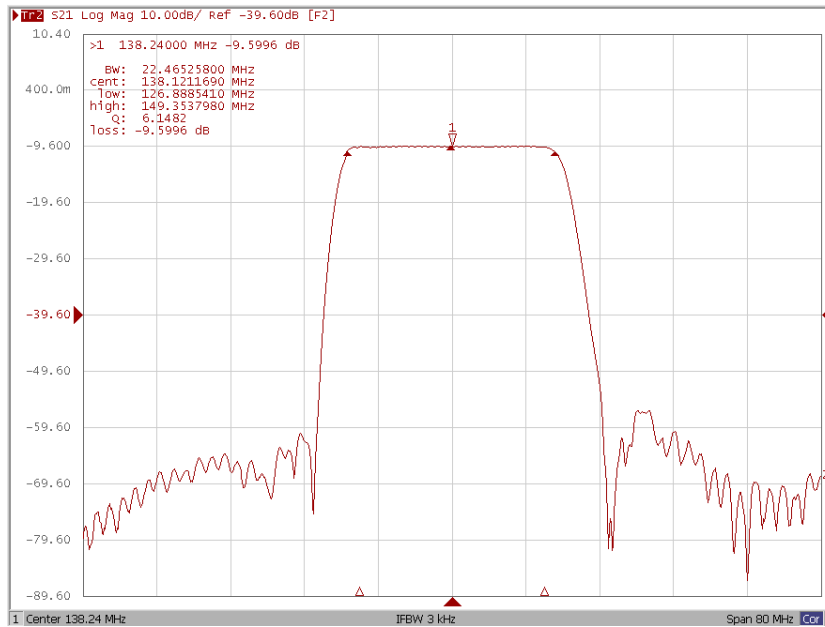
Dimension



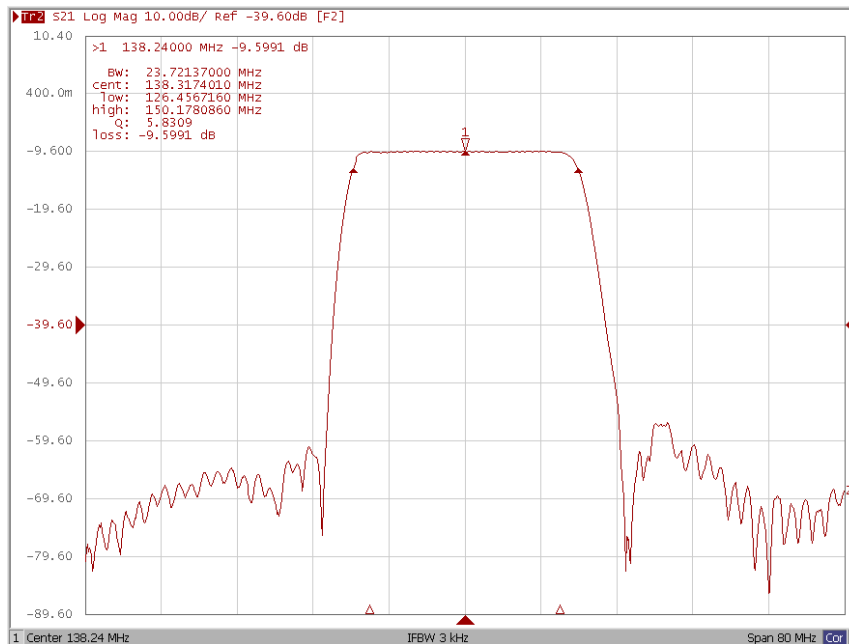
Pin Description	
A,B,C,F,G,H	Ground
I	Input
J	Ground
D	Output
E	Ground

Frequency Characteristics

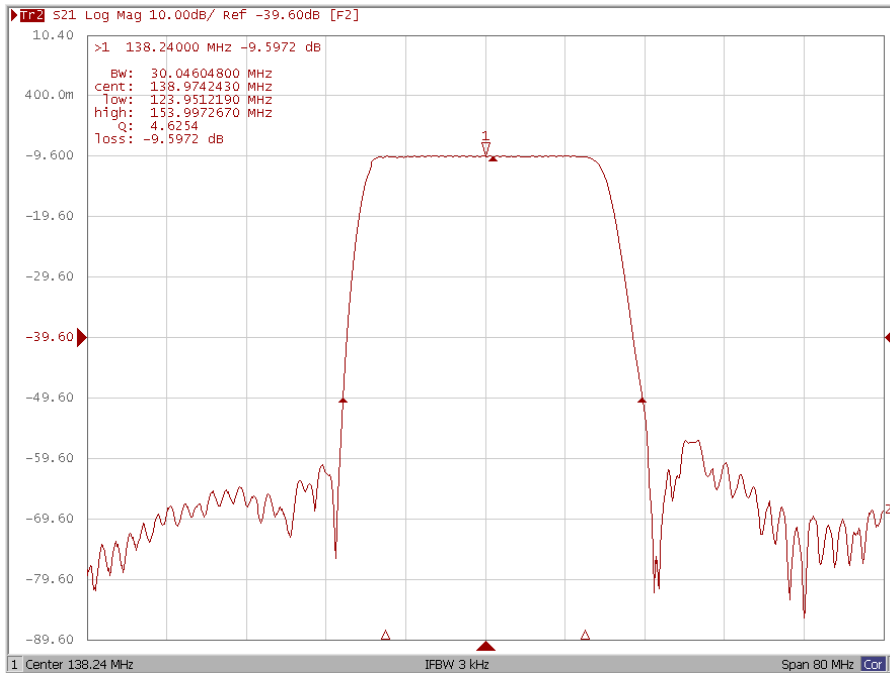
BANDWIDTH @ -1.0dB



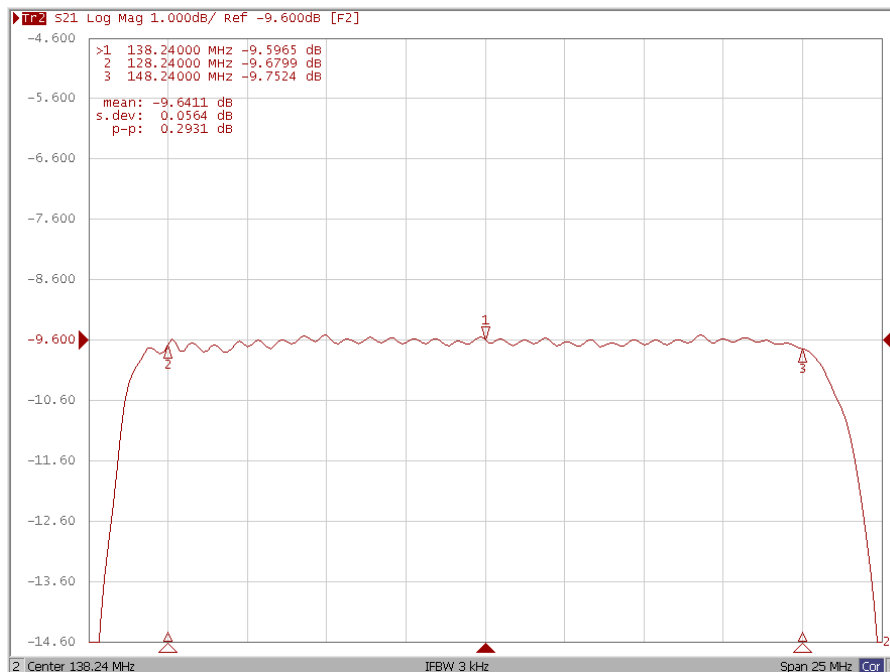
BANDWIDTH @ -3.0dB



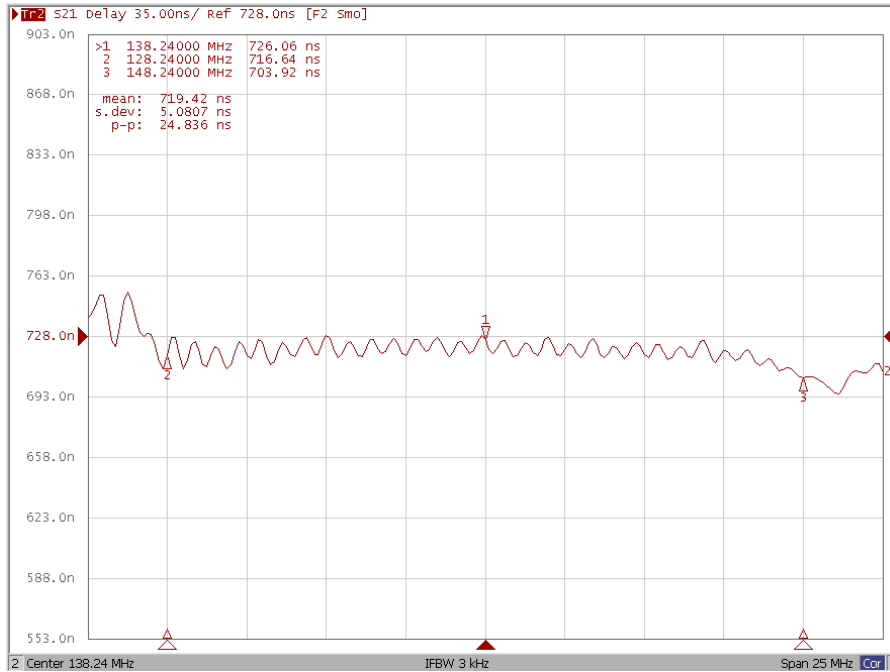
BANDWIDTH @ -40dB



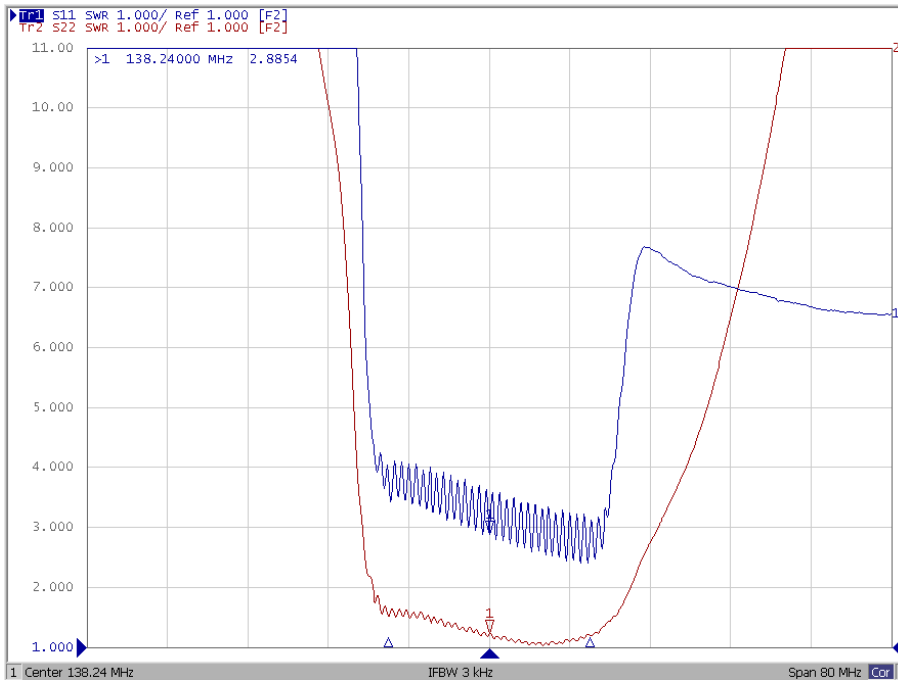
RIPPLE VARIATION (128.24MHz ~ 148.24MHz)



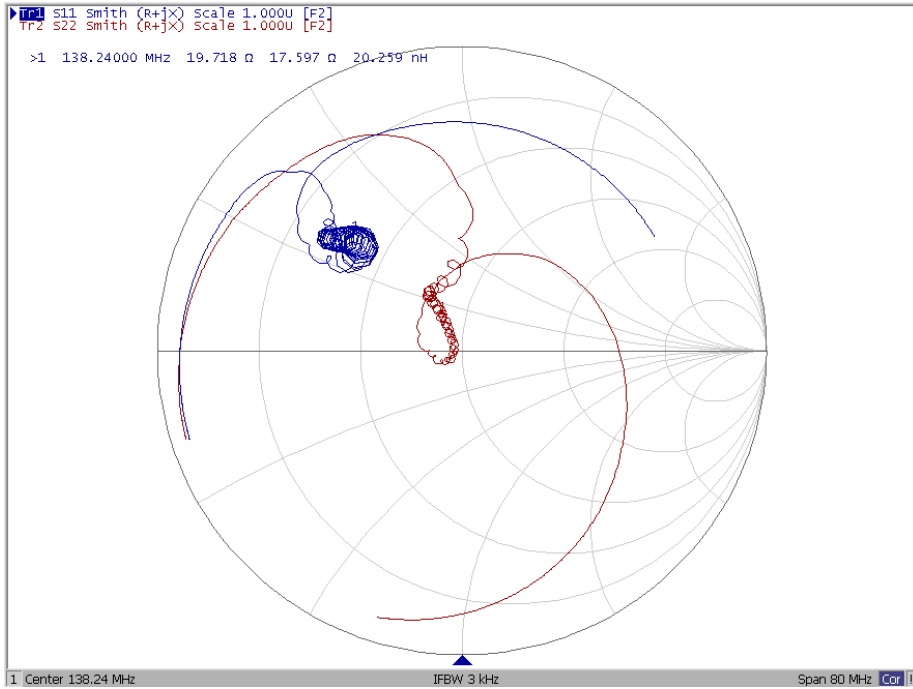
GROUP DELAY VARIATION (128.24MHz ~ 148.24MHz)



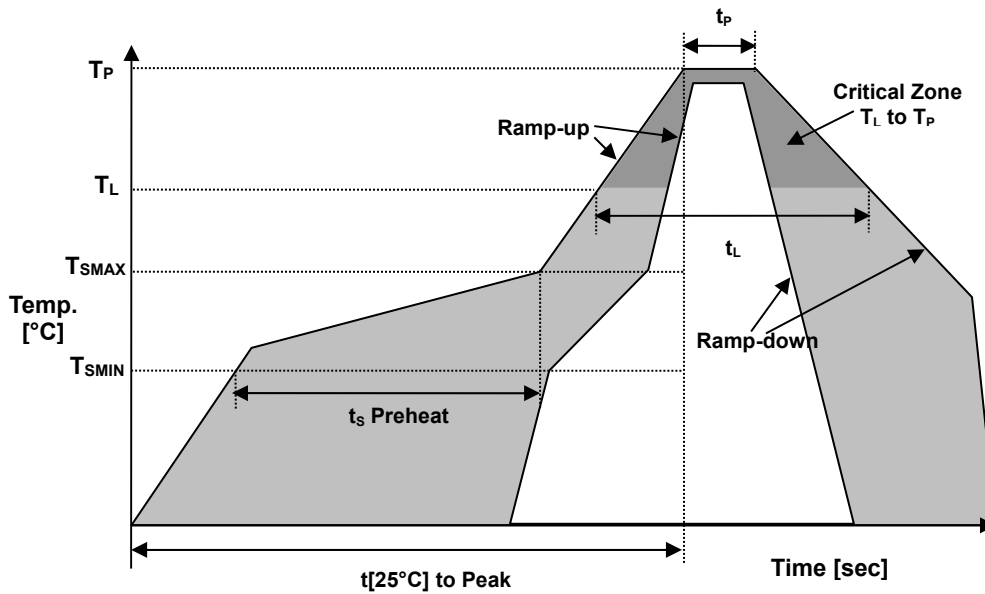
VSWR



SMITH CHART



● **REFLOW PROFILE**



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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°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t_L	60-150 sec.

● **ENVIRONMENTAL**

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS-2	6/6 COMPLIANT & LEAD FREE
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Au



April 2016