

SMD 2442MHz SAW FILTER

AFS2442.0S4



RoHS
Compliant



3.0 x 3.0 x 1.4mm

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

FEATURES:

- Small package
- Low Insertion Loss
- Excellent Attenuation Bandwidth

APPLICATIONS:

- Bluetooth Technology
- Mobile, GPS, ISM Band

ELECTRICAL SPECIFICATIONS:

Maximum Ratings

Item	Value
Operating Temperature Range	-20°C to + 70°C
Storage Temperature Range	-40°C to + 85°C
DC Permissive Voltage	0V
Maximum Input Power	10dBm

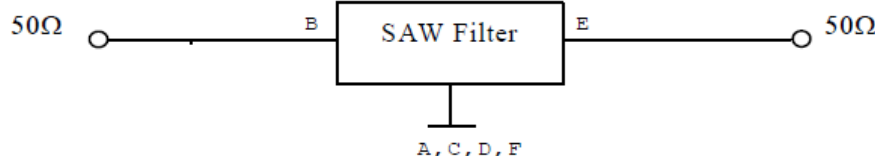
Electrical Characteristics

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)	2437	2442	2447	MHz	
Insertion Loss (IL _{min})	-----	1.9	6.0	dB	2437 ~ 2447MHz
Pass Bandwidth	55	78	-----	MHz	relative to IL min
Amplitude Ripple	-----	0.6	2.0	dB	$F_c \pm 12.5$ MHz
Group Delay Ripple	-----	5.0	20.0	ns	$F_c \pm 12.5$ MHz
Group Delay	-----	14	50	ns	$F_c \pm 12.5$ MHz
VSWR	-----	1.6	2.5		$F_c \pm 12.5$ MHz
Stop-band Attenuation	37.0	41.0	-----	dB	DC ~ 2300MHz
	20.0	31.0	-----		2300 ~ 2367MHz
	40.0	44.0	-----		2517 ~ 2650MHz
	25.0	31.0	-----		2650 ~ 4000MHz
Source Impedance (Z_s)	-----	50	-----	Ω	
Load Impedance (Z_L)	-----	50	-----	Ω	

Note: No matching network required for operation at 50 Ω .

TEST CIRCUIT:

HP Network analyzer



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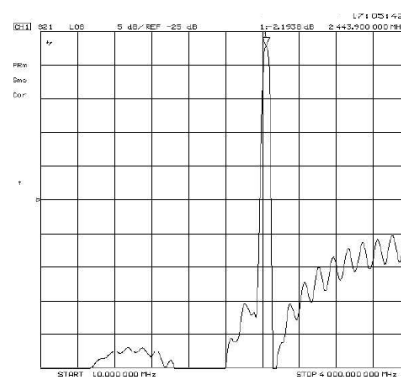
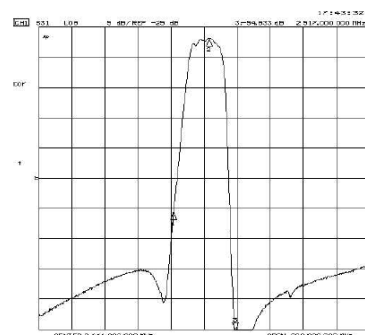
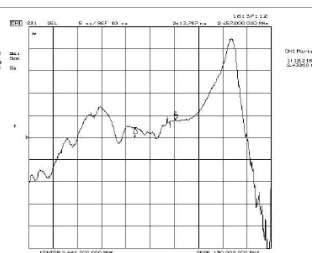
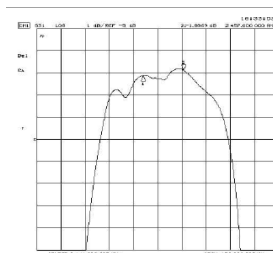
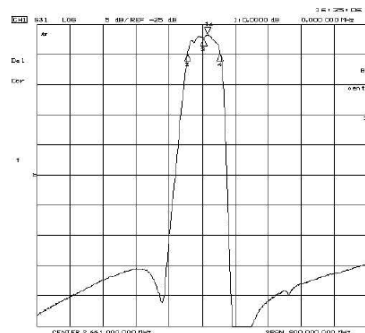
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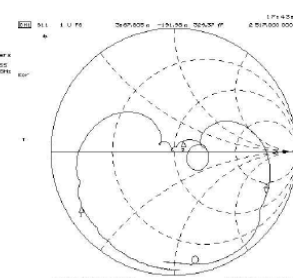
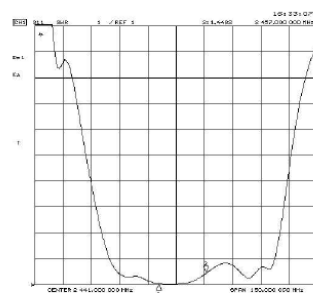


FREQUENCY CHARACTERISTICS

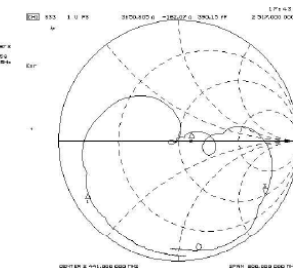
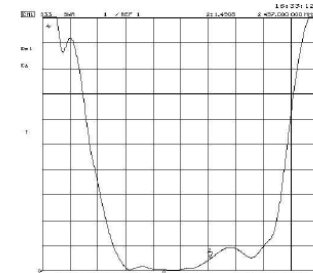


REFLECTION FUNCTION:

S11 VSWR



S22 VSWR



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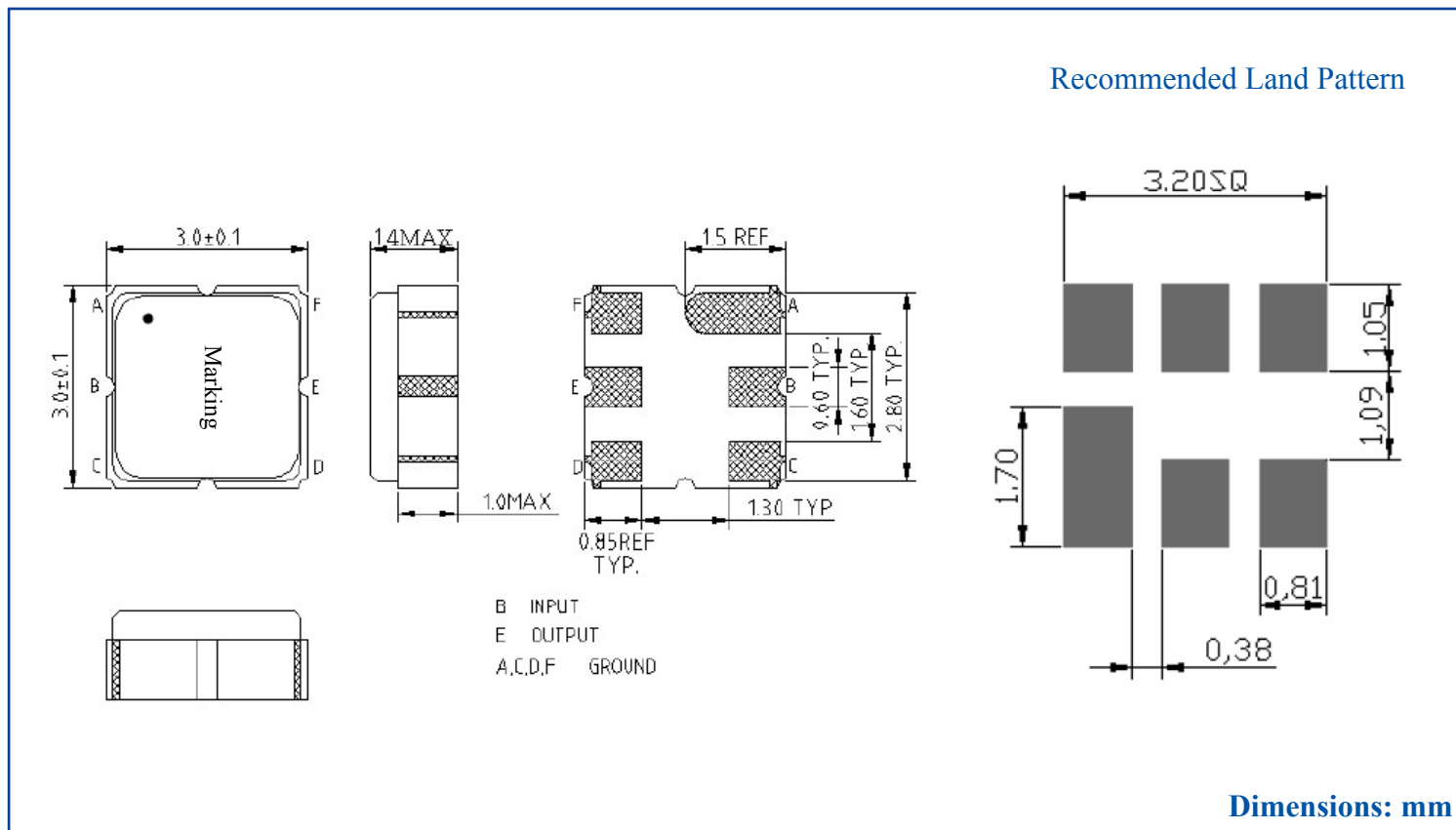


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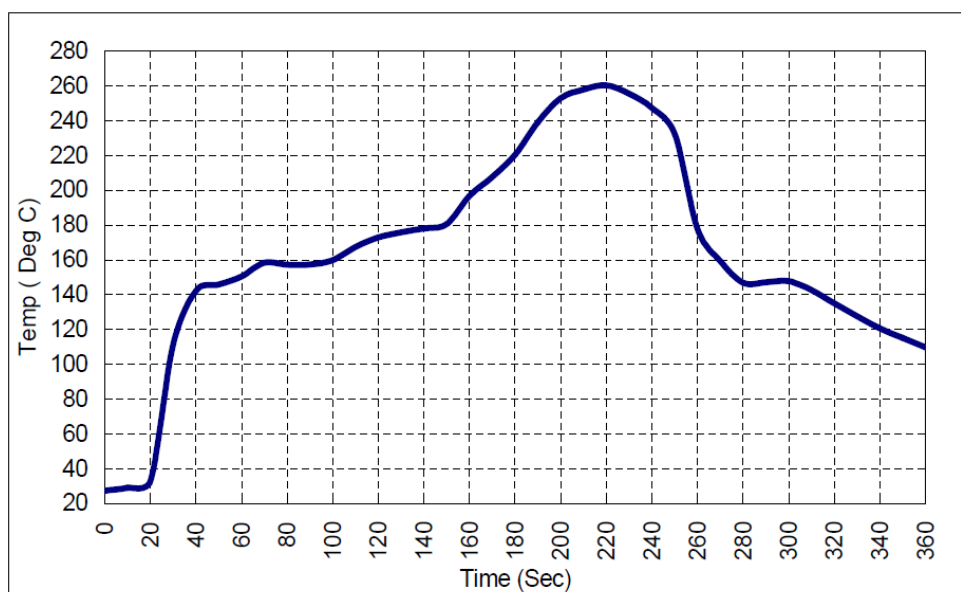


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OUTLINE DIMENSIONS:



REFLOW PROFILE:



3.0 x 3.0 x 1.4mm

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