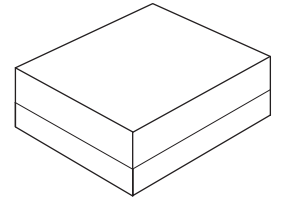


SF2683K

**689.5 MHz
SAW Filter**



SM1411-5

MAXIMUM RATING:

- Input Power Level: 26 dBm
- DC Voltage : 0V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensivity Level: 3

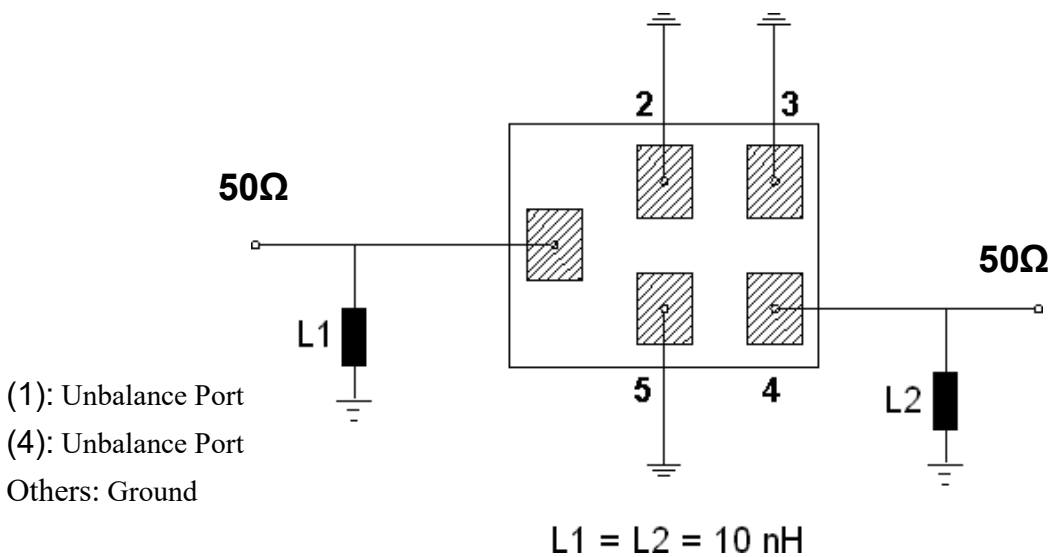
ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50 \Omega$
 Terminating load impedance: $Z_L = 50 \Omega$

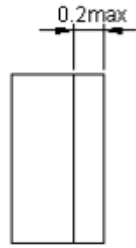
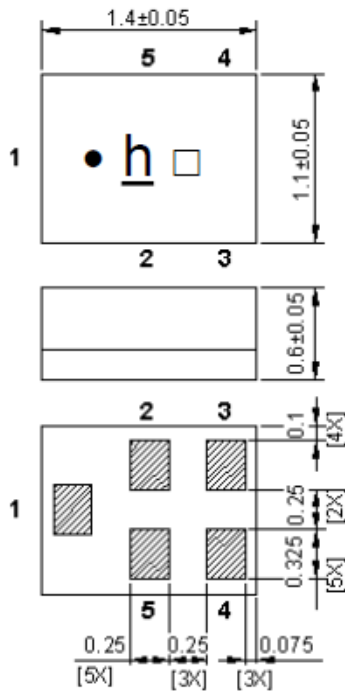
Item	Unit	Min	Typ.	Max	
Center frequency	MHz	-	689.5	-	-
Insertion Loss (663 ~ 716 MHz)	dB	-	5.5	6.0	25±2°C
Amplitude Ripple (663 ~ 716 MHz)	dB	-	4.5	5.0	25±2°C
Attenuation (Reference level from 0 dB)					
657.5 MHz	dB	6	36	-	25±2°C
722 MHz	dB	6	39	-	25±2°C
Temperature coefficient of Frequency	ppm/K	-36			

MEASUREMENT CIRCUIT:

* By Network analyzer simulation matching with port extension



OUTLINE DRAWING:



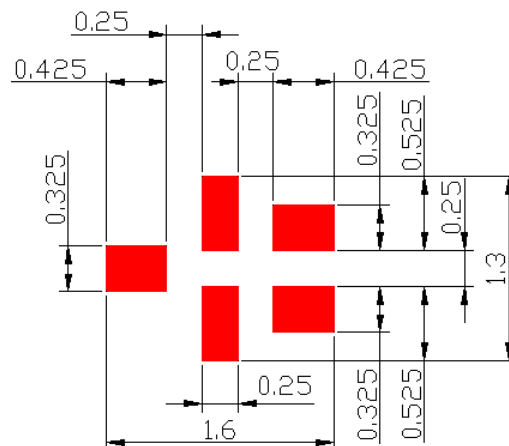
All tolerances are ± 0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2027	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2028	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

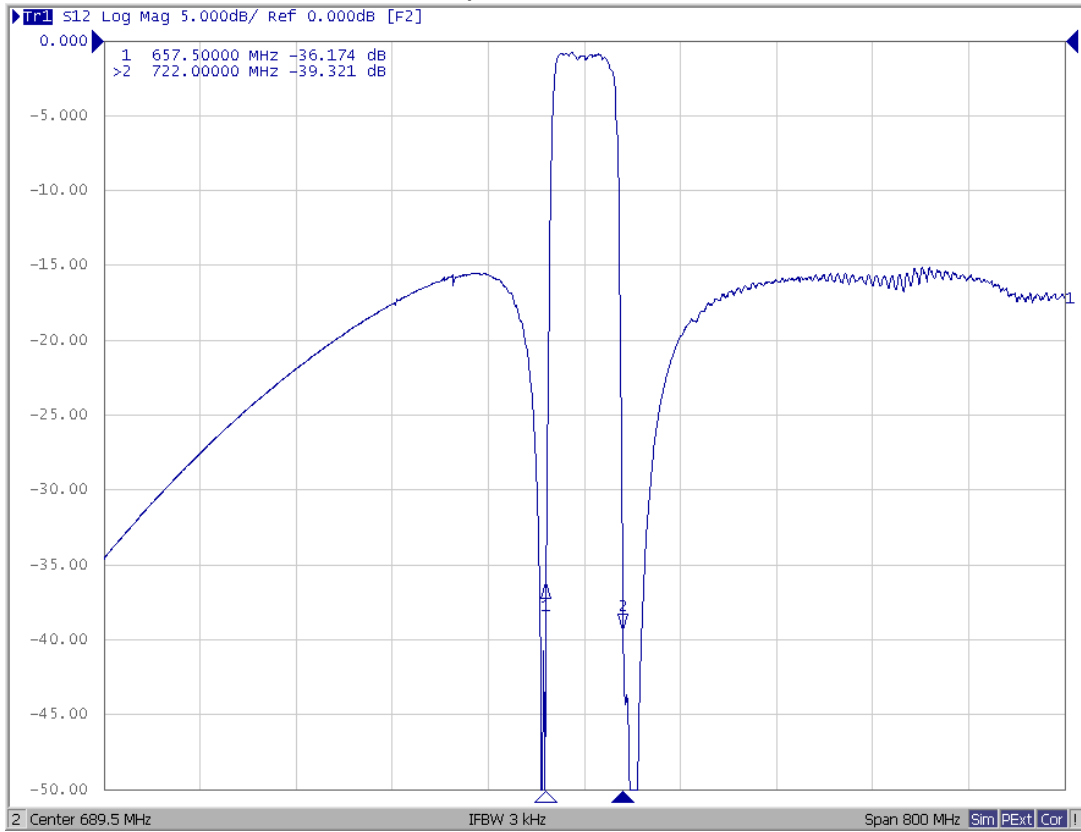
PCB Footprint:



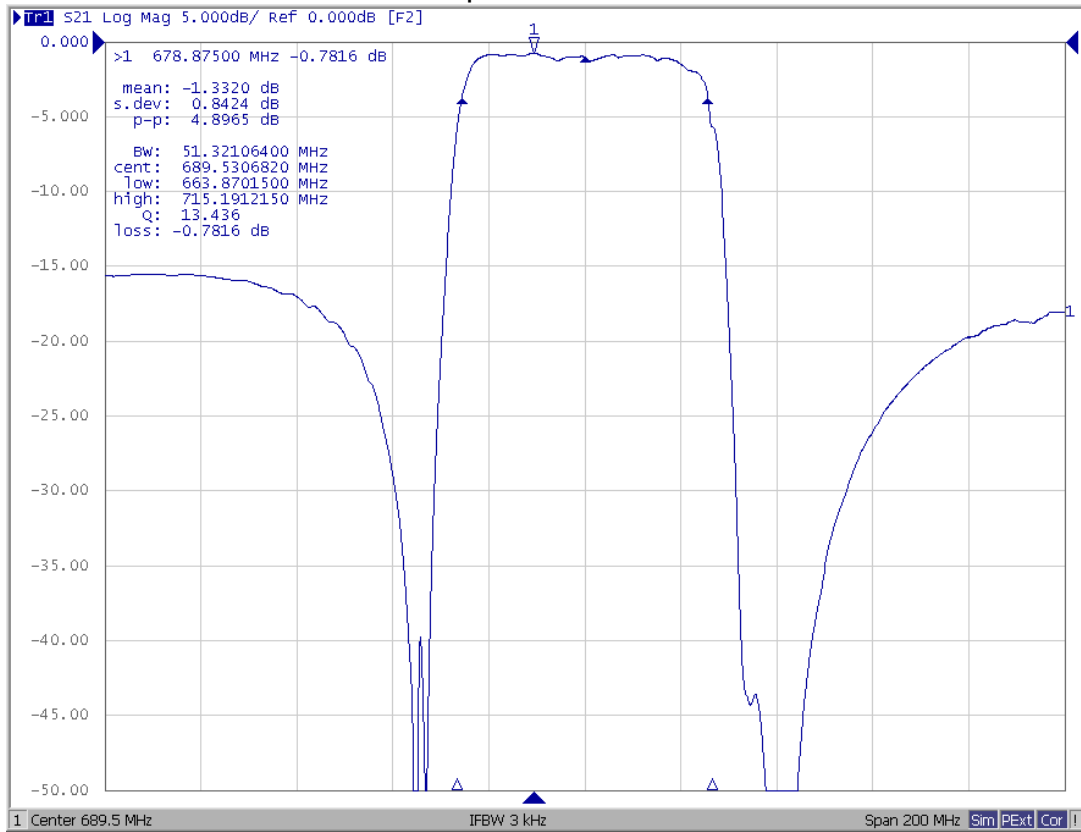
■ : Land Pattern
 Unit : mm

Frequency Characteristics:

Span 800 MHz

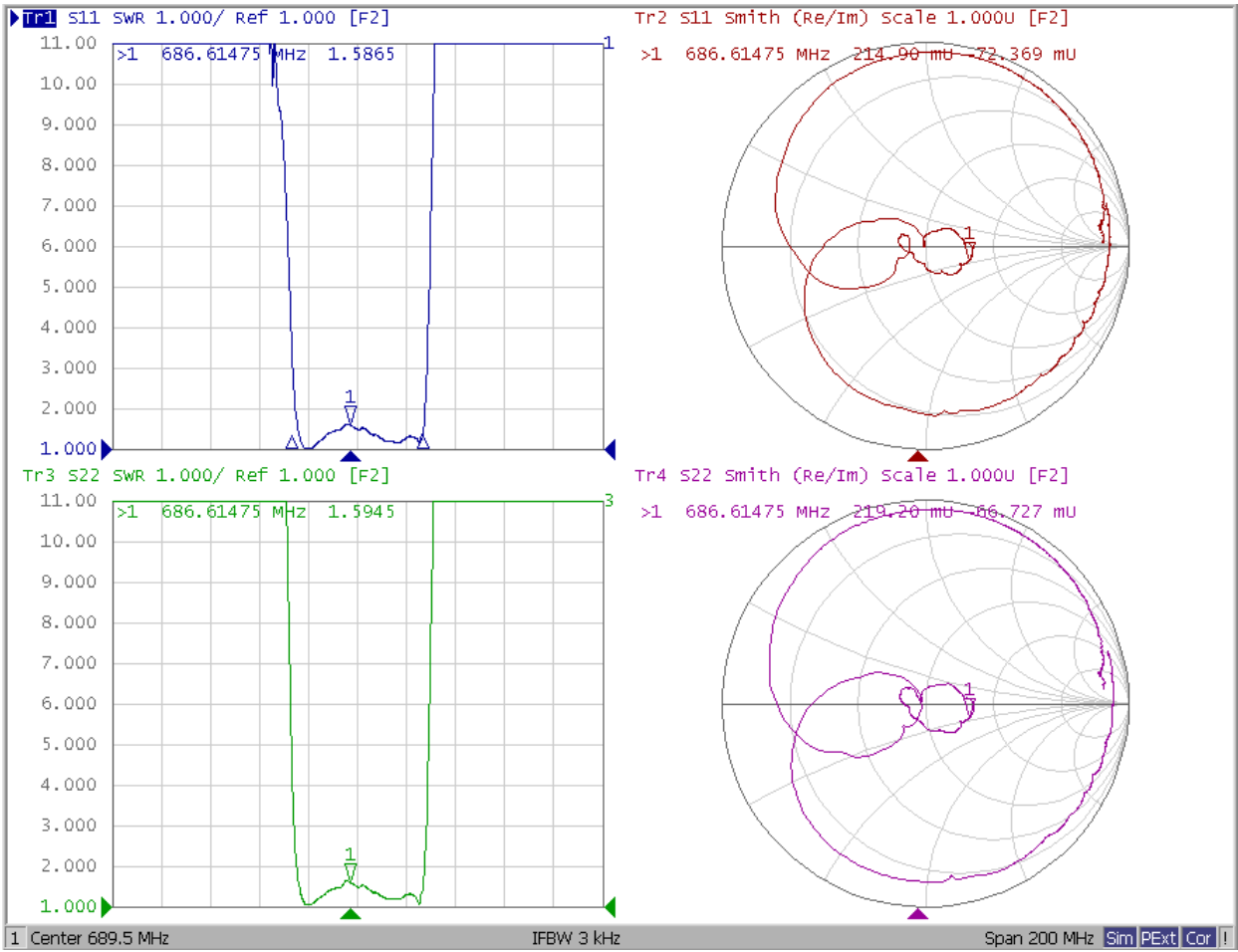


Span 200 MHz



Reflection Characteristic:

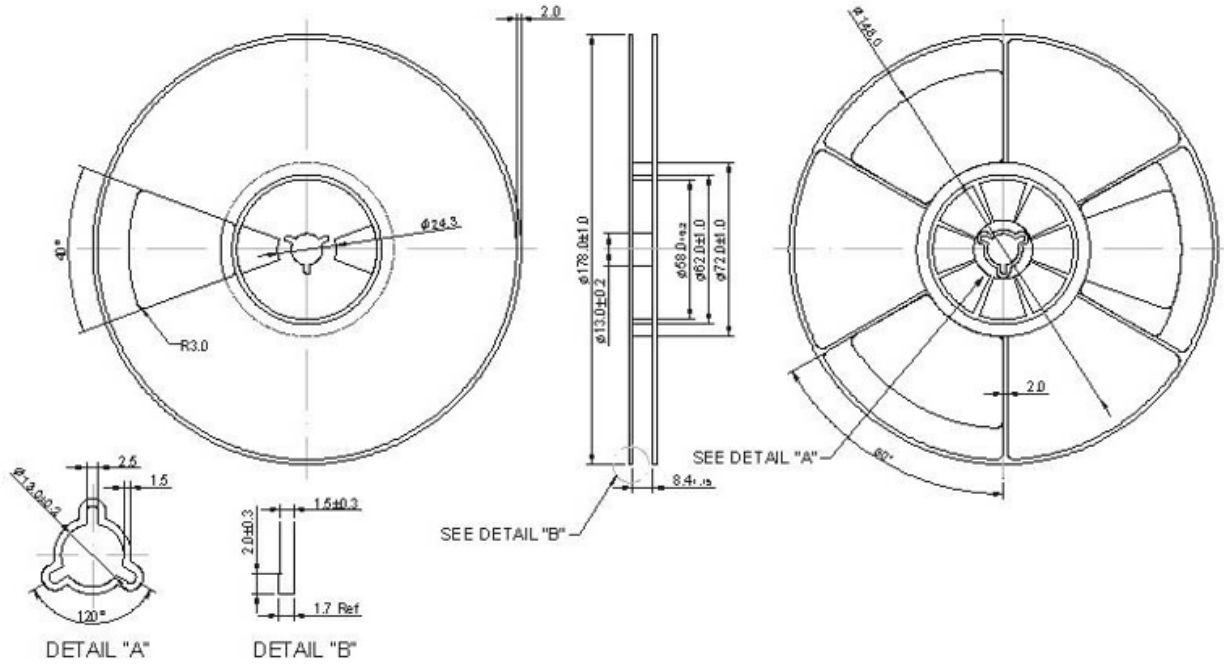
Span 200 MHz



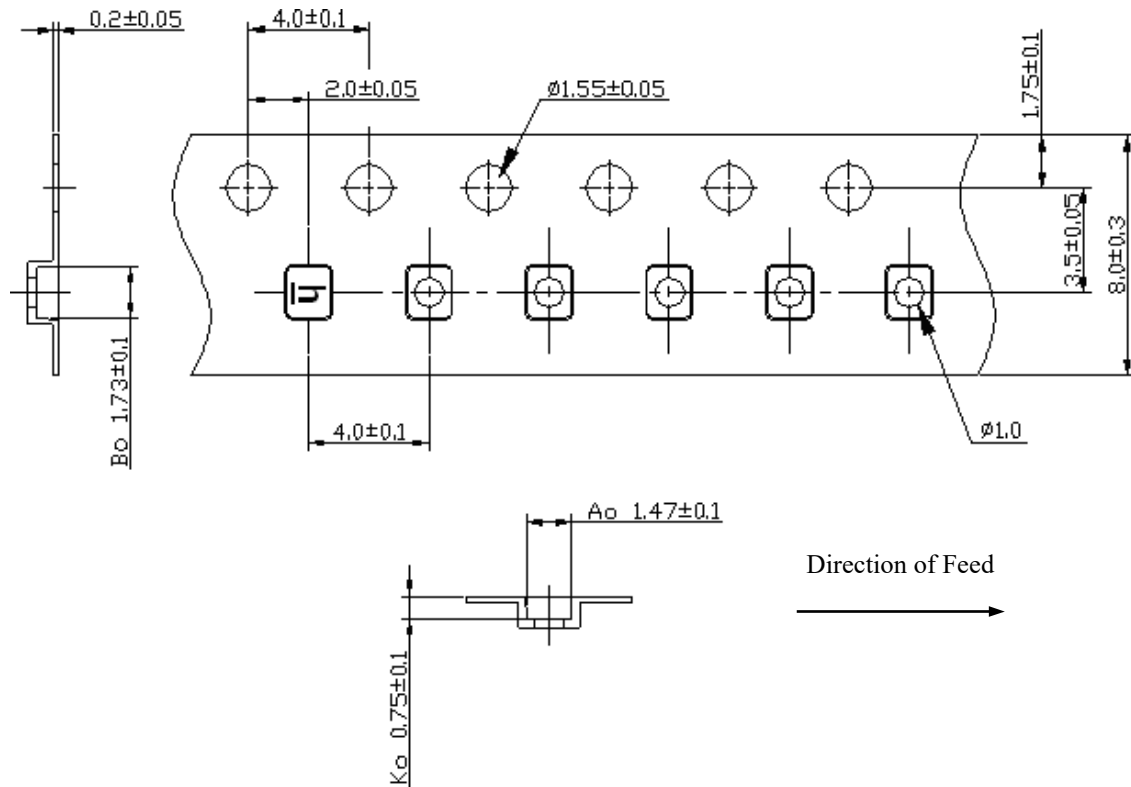
PACKING:

1. REEL DIMENSION

Reel Count" 7" = 3000

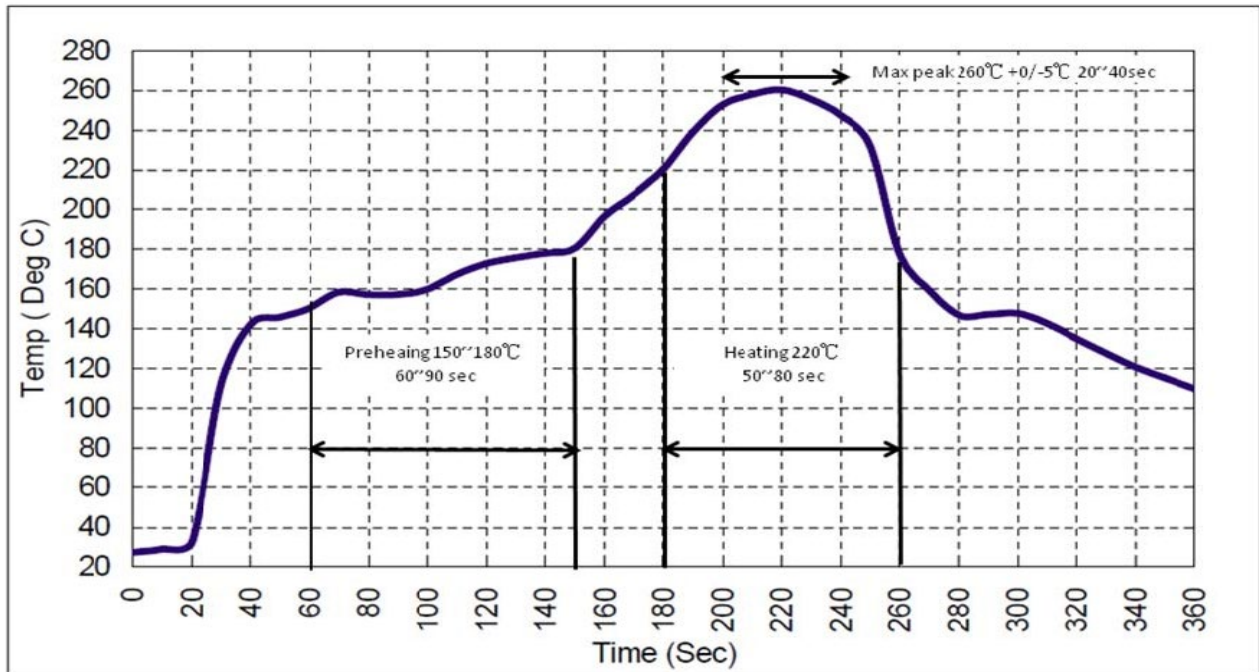


2. TAPE DIMENSION



RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.