

## FEATURES:

- 30 MHz ~ 512 MHz;
- 0.5 dB Insertion Loss;
- 1.5 Amp DC Current;
- 5 Watts RF CW Power;
- 50 Volt DC Rating;
- RoHS Compliant.

## APPLICATIONS:

- SW;
- VHF, UHF;
- Cellular;
- PCS, 3G;
- L, S, & C Band.

# LBST00300512B, 30 MHz ~ 512 MHz WIDE BAND BIAS-T

## ELECTRICAL SPECIFICATIONS @ 21 °C

Symbol	Parameters/Conditions	Unit	Min	Typical	Max
f	Passband	MHz	30		512
IL	Insertion Loss	dB		0.5	0.9
I <sub>dc</sub>	DC Current Handling	A		1.5	2.0
V <sub>dc</sub>	DC Voltage Handling	V			50
P <sub>o</sub>	RF CW Power Handling	W			5
VSWR <sub>ij</sub>	Input/Output VSWR	Ratio		1.2:1	1.5:1
Z <sub>0</sub>	Impedance	Ohm		50	

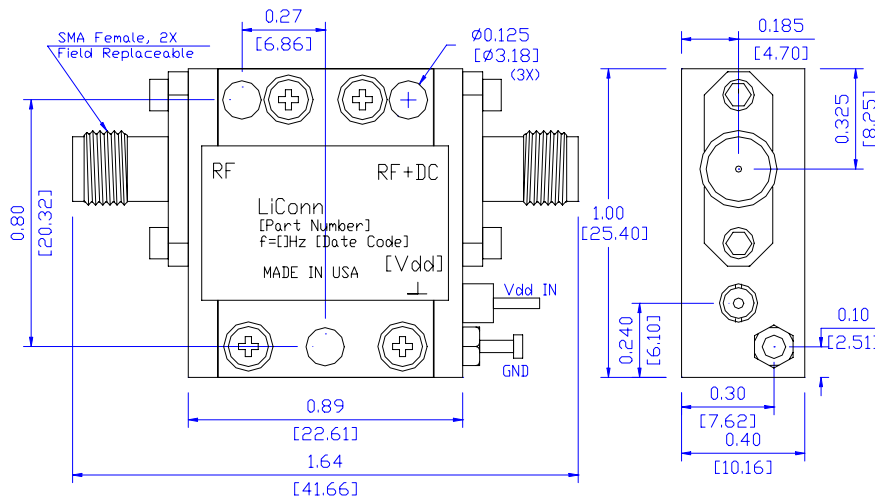
## ABSOLUTE MAXIMUM RATINGS<sup>1</sup>

Parameters/Conditions	Unit	Maximum
Channel Temperature	°C	+150
CW RF Power	W	5
DC Supply Voltage	V	50
DC Current	A	2.0
Operating Temperature	°C	-40 ~ +70
Storage Temperature	°C	-65 ~ +85

[1] Operation beyond these limits may cause permanent damage.

## MECHANICAL OUTLINE

Preliminary



Unit: INCH Base Material: Brass  
 [mm] Finish: Gold Plating  
 Tolerance: X.XXX ±0.005"  
 X.XX ±0.01"

## ORDERING INFORMATION: LBST00300512B

**Heat Sink Required For CW High Power Application!**