

# BAND PASS FILTER

# 1. Characteristics (at -40 to +85 °C)

Tentative Part Number	LFB1X2G45CN3E165	
Nominal Characteristics Impedance	50 Ω (Nominal)	
Nominal Center Frequency	2450.00 MHz	
Pass Band Range (BW)	fo ± 50.00 MHz	
Insertion Loss in BW	1.30 dB max. at +25 °C 1.60 dB max. at -40 to +85 °C	
	19.0 dB min. at 500.00 ~ 960.00 MHz	
Attenuation	20.0 dB min. at 3200.00 MHz	
Attenuation	30.0 dB min. at 4800.00 ~ 5000.00 MHz	
	30.0 dB min. at 7200.00 ~ 7500.00 MHz	
V.S.W.R. in BW	2.00 max.	
Power Capacity	500mW max	



## 2. Construction, Dimensions & Marking

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Mark	Meaning	
Α	Directional Input Mark	

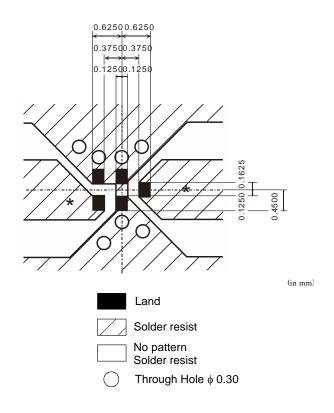
(in mm)

Mark	Dimension	Mark	Dimension
$\mathbf{L}$	$1.35 \pm 0.10$	c1	$0.325 \pm 0.100$
W	$1.05 \pm 0.10$	c2	$0.300 \pm 0.100$
${f T}$	0.8 max.	e1	$0.225 \pm 0.05$
a1	$0.20 \pm 0.10$	<b>e</b> 2	$0.225 \pm 0.05$
a2	$0.25 \pm 0.10$	e3	$0.225 \pm 0.05$
<b>a</b> 3	$0.20 \pm 0.10$	-	-

#### TERMINAL CONFIGURATION

Terminal No.	Terminal Name	Terminal No.	Terminal Name
(1)	IN	(4)	OUT
(2)	GND	(5)	GND
(3)	GND	-	-

### 3. Land Pattern



 $\mbox{\@model{\times}}$  Line width to be designed to match 50  $\Omega$  characteristic impedance, depending on PCB material and thickness.





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- Aerospace equipment

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- Burning / explosion control equipment
- Application of similar complexity and/ or reliability requirements to the applications listed in the above.

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