

MBL0727R1C

50Ω 699 to 2700MHz 1:1



Application

1. Impedance matching
2. Balanced amplifier
3. Balun
4. Cellular and DAS



Features

1. Excellent amplitude unbalance
2. Good return loss
3. Operating temperature range: -40~+85°C
4. 50Ω Impedance

Description

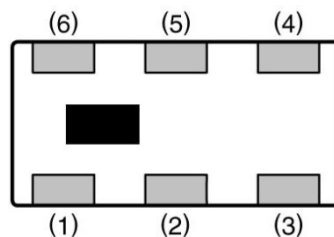
The MBL0727R1C is a LTCC balun by surface mount package. It is ideal for balanced amplifier and impedance matching. This composites which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Characteristics

Item	Min.	Type.@25°C	Max.	Unit
Unbalanced Port Impedance		50		Ω
Balanced Port Impedance		50		Ω
Frequency Range	699		2700	MHz
Insertion Loss			1.5	dB
Phase Unbalance	170		190	degrees
Amplitude			1	dB
Unbalance Port VSWR			2	:1
Operating Temp.	-40		+85	°C
Power			30	dBm

1) All the above data are based on specified demo board and tested in 25° environment.

Port Configuration



MBL0727R1C Port Configurations

All Use For RF & Microwave

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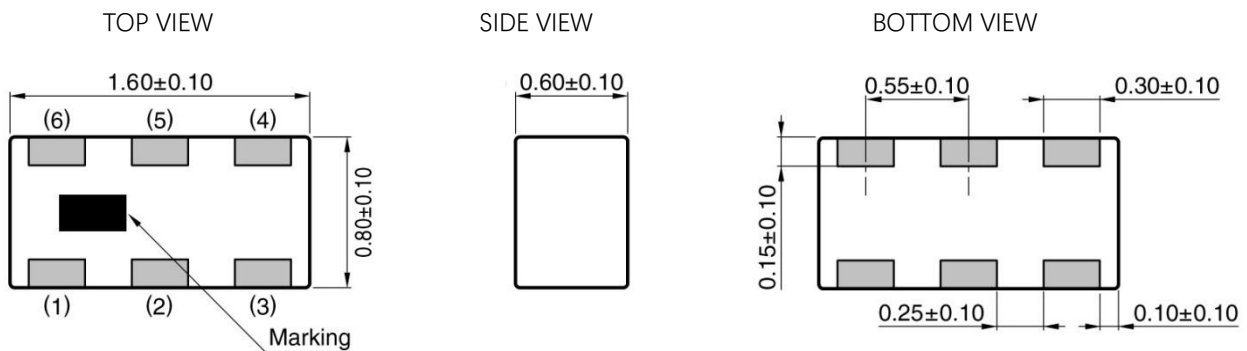
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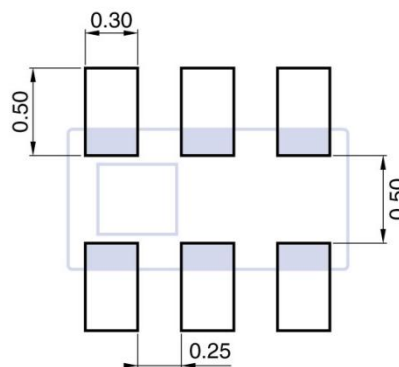
Pin No.	Function
1	Unbalanced Port
2	DC feed + RF GND or GND
3	Balanced Port
4	Balanced Port
5	GND
6	N.C.

Outline Drawing



Unit: mm ± 0.15 mm

Recommended PCB Layout



Unit: mm

REFLOW PROFILE

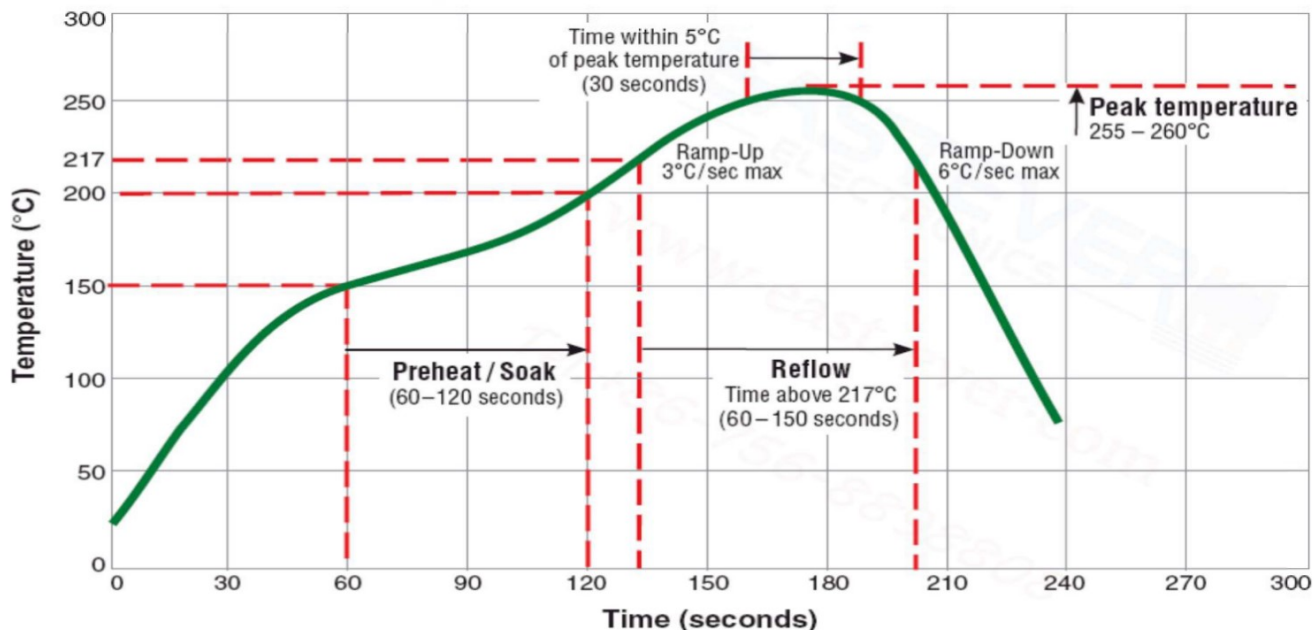
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Packaging and Ordering Information

Device	Package	Reel	Shipping
MBL0727R1C	1.6*0.8	7"	4000/Reel

Revision	Description	Date
Rev0	Preliminary	2023/3/29

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