

MBL0727R2C

50Ω 699 to 2700MHz 2:1



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

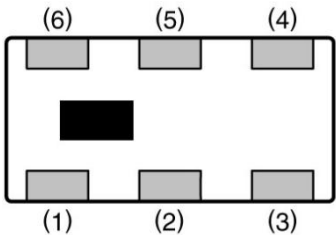
The MBL0727R2C is a LTCC balun by surface mount package. It is ideal for balanced amplifier and impedance matching. This composites which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Characteristics

Item	Min.	Type.@25°C	Max.	Unit
Unbalanced Port Impedance		50		Ω
Balanced Port Impedance		100		Ω
Frequency Range	699		2700	MHz
Insertion Loss		1	2.5	dB
Phase Unbalance	165		195	degrees
Amplitude			1.5	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



MBL0105C1 Port Configurations

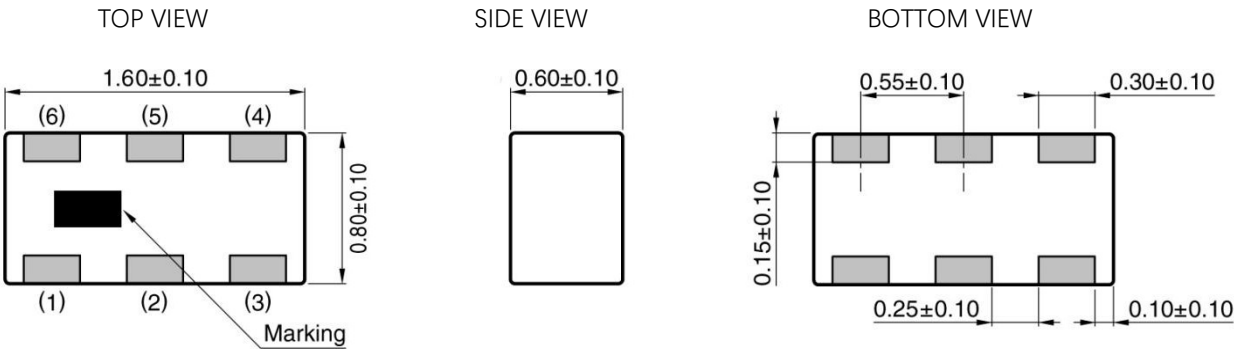
MBL0727R2C

50Ω 699 to 2700MHz 2:1



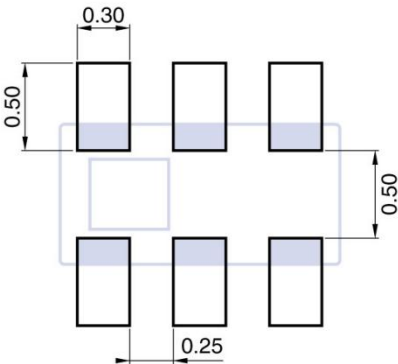
Pin No.	Function
1	Unbalanced Port
2	DC feed + RF GND or GND
3	Balanced Port
4	Balanced Port
5	GND
6	N.C.

Outline Drawing



Unit: mm ±0.15mm

Recommended PCB Layout

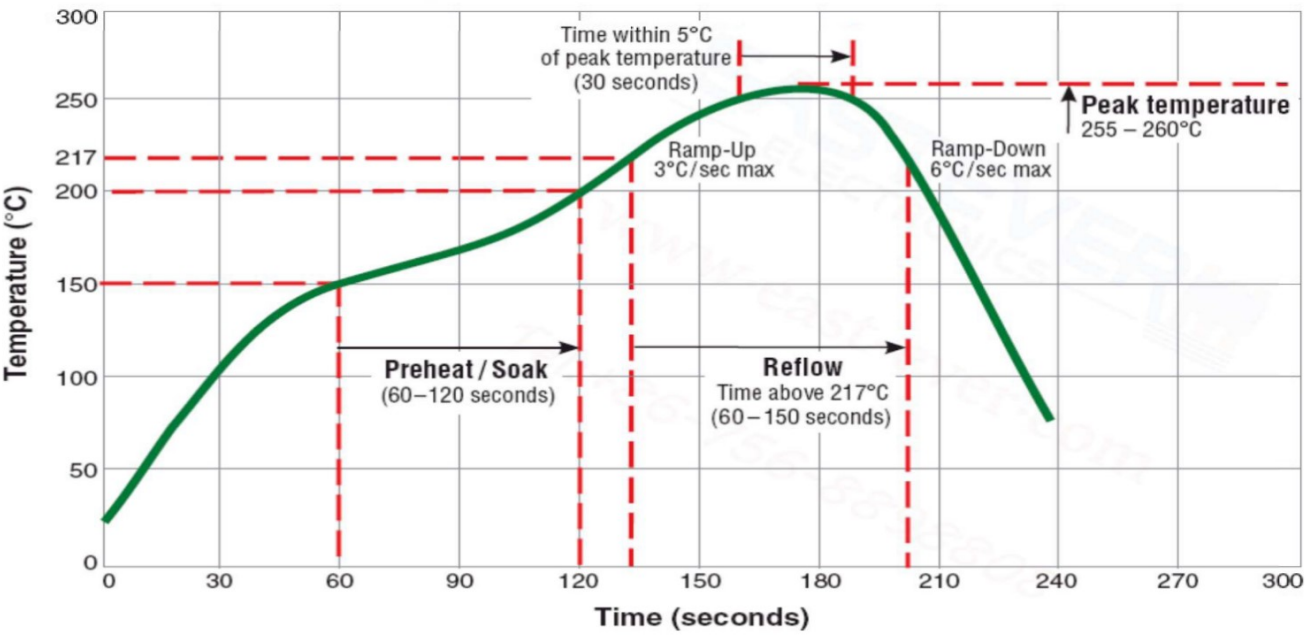


Unit: mm

REFLOW PROFILE

MBL0727R2C

50Ω 699 to 2700MHz 2:1



Packaging and Ordering Information

Device	Package	Reel	Shipping
MBL0727R2C	1.6*0.8	7"	4000/Reel

Revision	Description	Date
Rev0	Preliminary	2023/3/29