Performance Characteristics:

RF/LO frequency band: 6GHz-26GHz

• IF band: DC-10GHz

• Frequency conversion loss: 8dB

RF-IF isolation: 12dBLO-IF isolation: 25dB

LO-RF isolation degree: 35dB
Local vibration power: 13dBm
Chip size: 1.38mm×0.9mm×0.1mm

Product Description:

CW-MX773 is a GaAs MMIC passive double balanced mixer with RF/local frequency covering 6-26GHz, IF freq uency covering DC-10GHz, conversion loss less than 10dB, Rf to if isolation greater than 7dB, local vibration to if isolation greater than 20dB, local vibration to radio frequency isolation greater than 29dB, typical local input po wer is 13dBm.

Electrical parameters: (TA=25°C,IF=0.5GHz,LO=13dBm)

Indicators	Minimum	Typical value	Maximum value	Units
Radio frequency	6-26			GHz
Local frequency	6-26			GHz
If frequency	DC-10			GHz
Frequency conversion loss	7	8	10	dB
RF-IF isolation	7	12	23	dB
LO-IF isolation	20	25	33	dB
LO-RF isolation	29	35	55	dB
P1dB(input)	9.5	12	13.5	dBm

Use limit parameters: (Exceeding any of the above maximum limits is likely to cause permanent damage.)

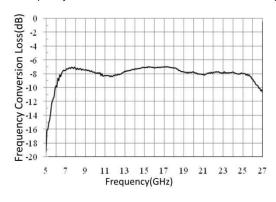
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Rf/IF power	21dBm
Local vibration power	21dBm
Storage temperature	-65°C-150°C
Service temperature	-55°C-125°C

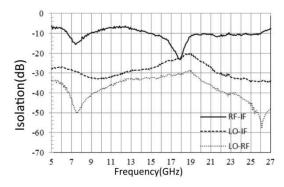
website: www.cdcwtec.com

Typical curve:

Frequency conversion loss curve @LO=13dBm, IF frequency 0.5GHz

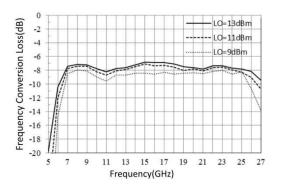
isolation @LO=13dBm, if frequency 0.5GHz

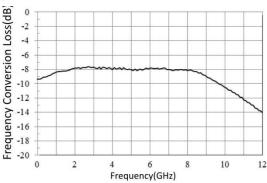


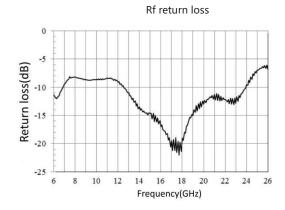


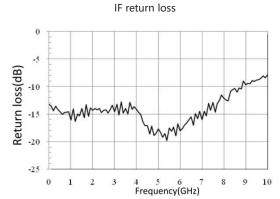
Frequency conversion loss curve @ IF frequency 0.5GHz

IF bandwidth @LO=26GHz,LO=13dBm



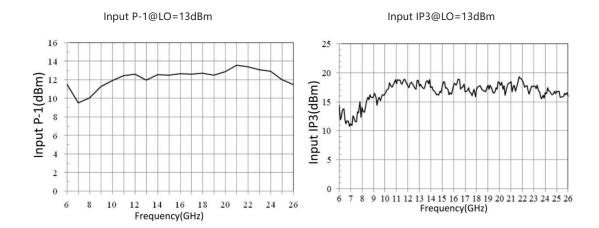




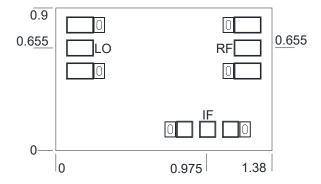


portraiture: 028-8709823

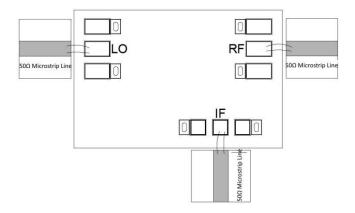
website: www.cdcwtec.com



Dimensional drawing: (unit mm)



Suggested assembly drawing:



Instructions:

Storage: The chip must be placed in a container with electrostatic protection and stored in a nitrogen environment. Cleaning treatment: The bare chip must be operated and used in a purified environment. It is forbidden to use liquid cleaning agent to clean the chip.

Electrostatic protection: Strictly comply with the ESD protection requirements to avoid electrostatic damage to the components.

General operation: Use vacuum chuck or precision pointed tweezers to pick up the chip. Avoid touching the surface of the chip with tools or fingers during handling.

Mounting operation: The chip can be installed using AuSn solder eutectic welding or conductive adhesive bonding process. The mounting surface must be clean and flat.

Bonding operation: Input and output with 2 (recommended diameter of 25um gold wire) bonding wire, bonding wire length less than 250um is optimal. It is recommended to use the smallest possible ultrasonic energy. Bonding begins at the pressure point on the chip and ends at the package (or substrate).

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