

# MCR3800M

## Low Profile RF Crossovers

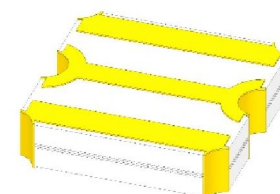
MECSINE 兆讯

### APPLICATIONS

1. DC line and another RF signal crossover

### Features

1. Low Insertion Loss 0.15dB typ based on PTFE.
2. High Isolation, 20 dB typ.
3. Ideal for DC line and another RF signal crossover
4. Excellent high-power capacity up to average 30 watts
5. RoHS compliance (Pb-Free)



### Description

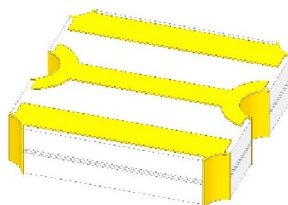
The MCR3800M is a low profile crossover that enables the transition of two intersecting DC line and another RF signal crossover. Our crossovers are cost-effective and are available in frequencies ranging up to 3.8 GHz. They are also surface-mountable, shipped on tape-and-reel for automated assembly and RoHS compliant. MCR3800M is constructed from ceramic filled PTFE composites which possess excellent electrical and mechanical stability. All components are 100% RF tested.

### Characteristics 1)

Item	Min.	Type. @ 25°C	Max.	Unit
Frequency Range	DC		3800	MHz
Isolation	20	25		dB
Insertion Loss		0.15	0.15	dB
VSWR (:1)		25	1.5	:1
Operating Temp.	-55		+125	°C
Power			30	W

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

### Port Configurations



MCR3800M (Top View)

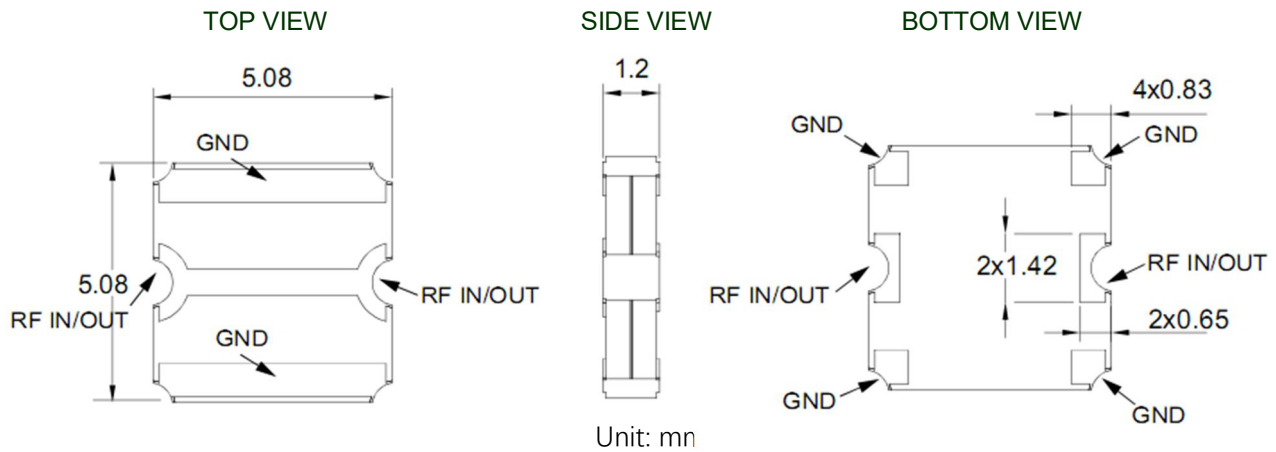
All Use For RF & Microwave

# MCR3800M

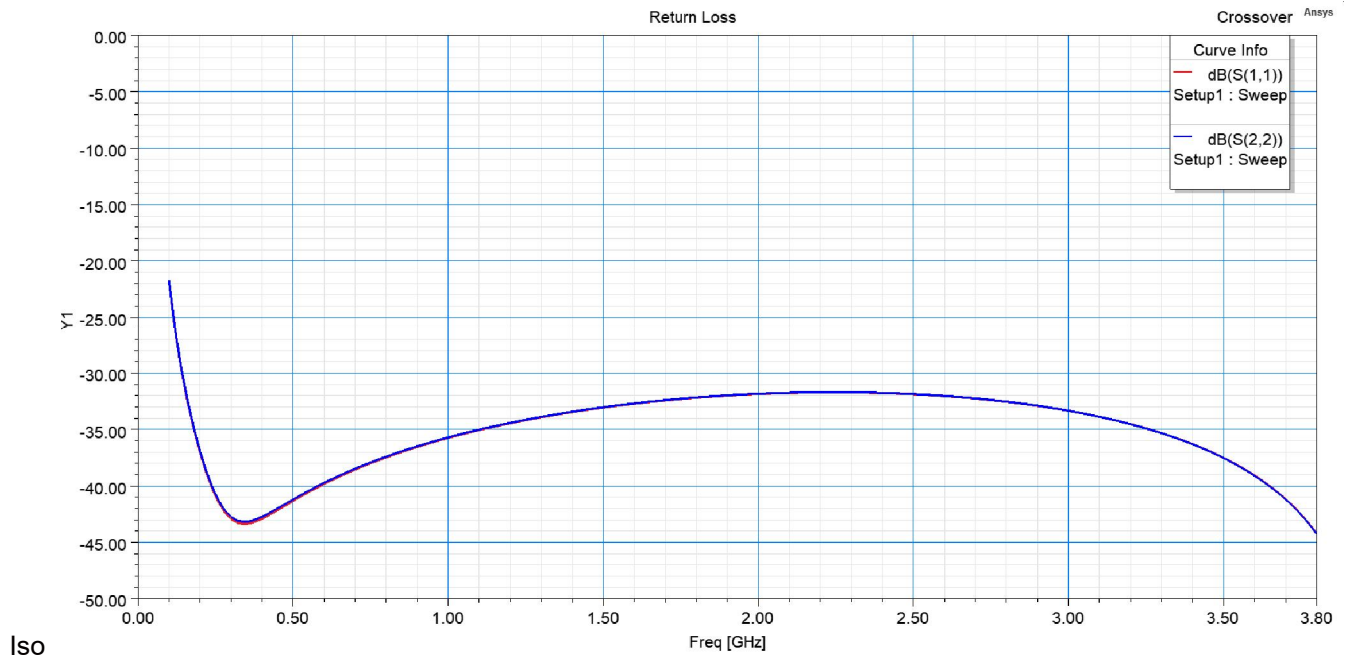
## Low Profile RF Crossovers

MECSINE 兆讯

### Outline Drawing



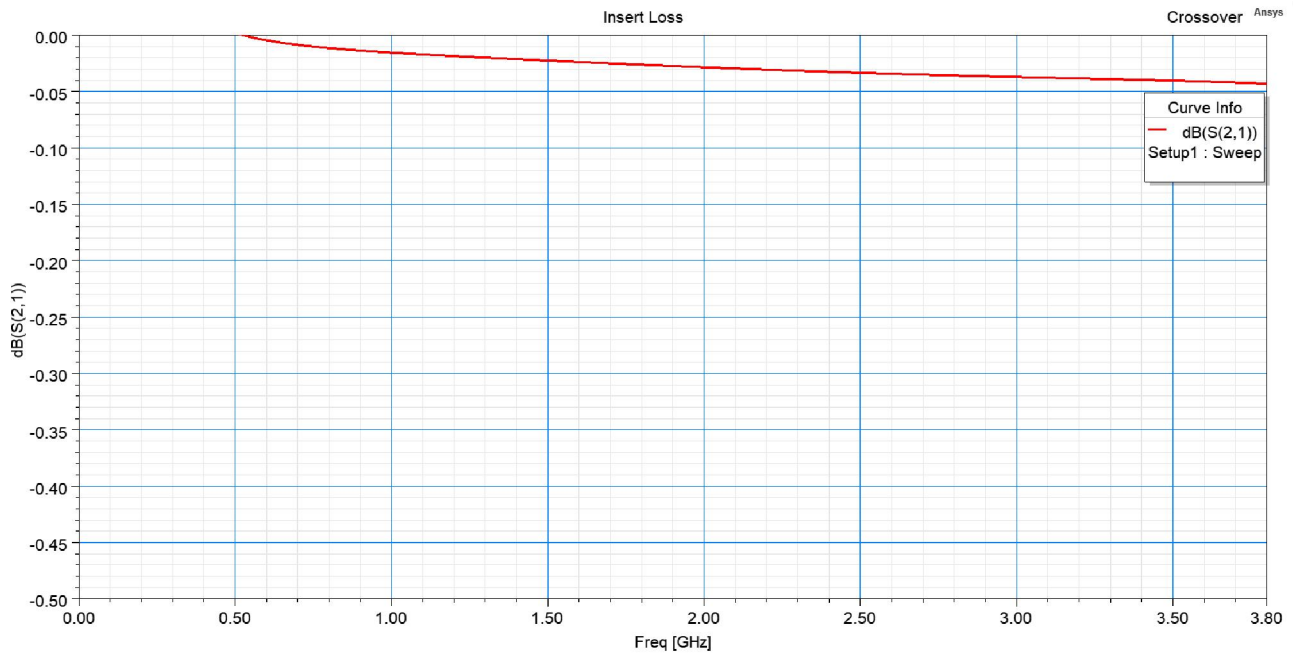
### Typical Performance (-55°C, 25°C, 95°C, 125°C: DC-3800MHz)



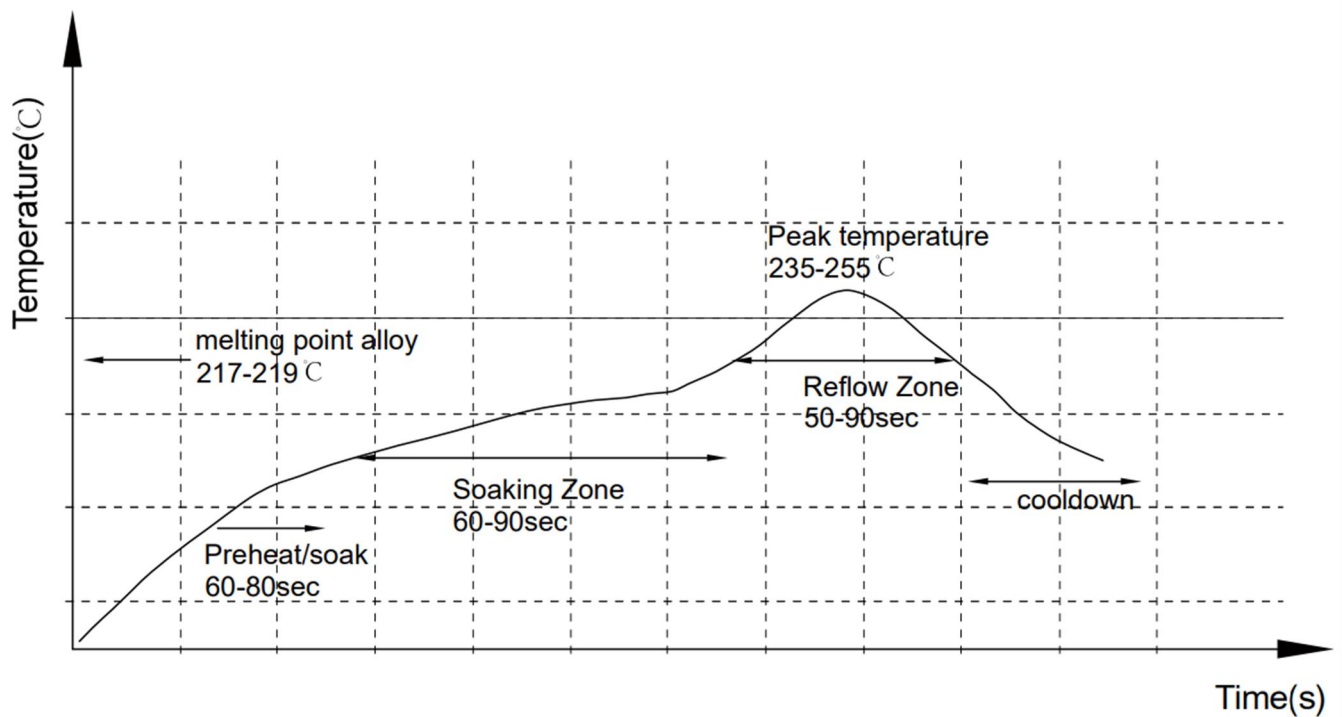
# MCR3800M

## Low Profile RF Crossovers

MECSINE 兆讯



### REFLOW PROFILE



All Use For RF & Microwave

Shenzhen Megsine technology co., ltd [www.megsine.com](http://www.megsine.com) [sales@megsine.com](mailto:sales@megsine.com) may contain us for future information

Ju 09, 2021

# MCR3800M

## Low Profile RF Crossovers



	Ramp Up	Pre-Heating	Peak	Soaking
Temperature(°C)	T1:160±5°C	T2:180±5°C	T4:260±5°C	T3:230±5°C
Time(sec)	t1:60±5sec	t2:100±15sec	t3:30±5sec	t4:60±10sec

### Packaging and Ordering Information

Device	Package	Reel	Shipping
MCR3800M	SMD	7"	1000/Reel

*All Use For RF & Microwave*

# MCR3800M

## Low Profile RF Crossovers



Revision	Description	Date
Rev0	Preliminary	2023/3/7

*All Use For RF & Microwave*