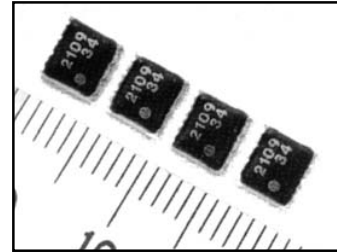


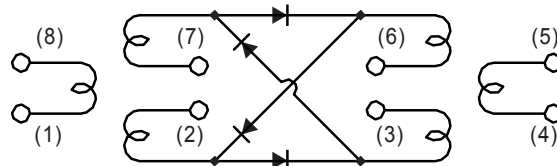
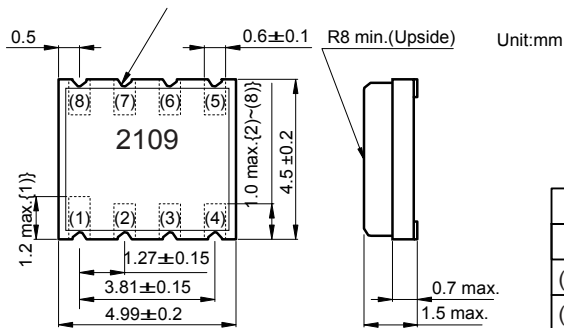
Double Balanced Mixers

Features

- Lowest Loss and VSWR
- Custom Designs Available
- Surface Mounted
- Low Cost
- Available on Tape and Reel
- Custom Designs Available



Dimensions, Schematics



Port Position							
DBM2109, DBM2115				DBM2219			
(1) RF	(2) IF	(3)GND	(4) LO	(1) LO	(2) IF	(3)GND	(4) RF
(8)GND	(7) IF	(6)GND	(5)GND	(8)GND	(7) IF	(6)GND	(5)GND

* IF port{(2) to (7)} shall be connected on the substrate.

* Recommend a pattern IF port {(2) to (7)} sized at 0.6 ± 0.1 mm.

Order Information

- 860M ~ 970MHz -

Style No.	Frequency Range [MHz]	Lo Power [dBm]	Conversion Loss [dB]	Intercept Point [dBm]	1 dB Compression [dBm]	Isolation [dB]	Impedance [Ω]	Max. Input Power [mW]	Max. Input Current [mA]
DBM 2109-01A (RX)	RF Input {Port (1)} 860~970	+8	8.0 max.	+8 min.	0 min.	RF -> IF 8 min.	50	50	50
	LO Input {Port (4)} 710~1120	+3	9.0 max.	+7 min.	-1 min.	LO -> IF 14 min.			
	IF Output {Port (7)} 40~150	0	10.0 max.	+6 min.	-2 min.	LO -> RF 20 min.			
DBM 2109-01B (TX)	IF Input {Port (7)} 40~150	+8	8.5 max.	—	-4 min.	I F -> RF 20 min.	50	50	50
	LO Input {Port (4)} 670~1120	+3	9.0 max.	—	-4 min.	LO -> IF 18 min.			
	RF Output {Port (1)} 820~970	0	10.0 max.	—	-4 min.	LO -> RF 20 min.			

- 1460M ~ 1570MHz -

Style No.	Frequency Range [MHz]	Lo Power [dBm]	Conversion Loss [dB]	Intercept Point [dBm]	1 dB Compression [dBm]	Isolation [dB]	Impedance [Ω]	Max. Input Power [mW]	Max. Input Current [mA]
DBM 2115 - 01A (RX)	RF Input {Port (1)} 1460~1570	+8	8.5 max.	+5.0 min.	-4.0 min.	RF -> IF 8 min.	50	50	50
	LO Input {Port (4)} 1510~1720	+3	9.0 max.	+3.5 min.		LO -> IF 15 min.			
	IF Output {Port (7)} 50~150	0	9.5 max.	+2.0 min.		LO -> RF 12 min.			

- 2110M ~ 2190MHz -

Style No.	Frequency Range [MHz]	Lo Power [dBm]	Conversion Loss [dB]	Intercept Point [dBm]	1 dB Compression [dBm]	Isolation [dB]	Impedance [Ω]	Max. Input Power [mW]	Max. Input Current [mA]
DBM 2219W - 01A (RX)	RF Input {Port (4)} 2110~2190	0	8.0 max.	+3.0 min.	-6.0 min.	LO -> RF 12 min.	50	50	50
	LO Input {Port (1)} 1865~1955					LO -> IF 8 min.			
	IF Output {Port (7)} 235~245					RF -> IF 15 min.			
DBM 2219W - 01B (TX)	IF Input {Port (7)} 235~245	0	8.0 max.	—	-6.0 min.	LO -> RF 12 min.	50	50	50
	LO Output {Port (1)} 1865~1955					LO -> IF 8 min.			
	RF Input {Port (4)} 2110~2190								