

TRIPLE BALANCED MIXERS

AC COUPLED I.F.

Frequency Range LO/RF (MHz) IF (MHz)		LO Drive (dBm)	Conversion Loss (dB) max.	1 dB Comp. Pt. (dBm) typ.	Isolation L/R (dB) min. L/I (dB) min.		P/N
0.05-250	0.05-250	+10	7.0	+5	40	30	X1L-01-*
0.5-1000	0.5-1000	+10	8.0	+5	25	20	X1L-02-*
1-1000	1-1000	+10	7.5	+5	25	20	X1L-03-*
500-1500	50-500	+10	7.5	+5	30	30	X1L-04-*
20-1600	20-600	+10	8.0	+5	25	20	X1L-05-*
800-1900	40-500	+7	8.0	+1	23	20	X1L-06-*
800-2000	5-1000	+10	8.0	+5	30	30	X1L-07-*
20-2500	20-600	+7	9.5	+1	25	20	X1L-08-*
1-2500	1-1000	+10	8.5	+5	25	20	X1L-09-*
5-3000	5-2000	+10	8.5	+5	25	25	X1L-10-*
5-4200	5-2000	+10	10.0	+5	20	25	X1L-11-*
0.05-250	0.05-250	+13	7.0	+7	40	30	X1T-01-*
0.5-1000	0.5-1000	+13	8.0	+7	25	20	X1T-02-*
1-1000	1-1000	+13	7.5	+7	25	20	X1T-03-*
1-2500	1-1000	+13	8.5	+7	25	20	X1T-09-*
5-3000	5-2000	+13	8.5	+7	25	25	X1T-10-*
5-4200	5-2000	+13	10.0	+7	20	25	X1T-11-*
0.05-250	0.05-250	+17	7.0	+10	40	30	X1M-01-*
0.5-1000	0.5-1000	+17	8.0	+10	25	20	X1M-02-*
1-1000	1-1000	+17	7.5	+10	25	20	X1M-03-*
1-2500	1-1000	+17	8.5	+10	25	20	X1M-09-*
5-3000	5-2000	+17	8.5	+10	25	25	X1M-10-*
5-4200	5-2000	+17	10.0	+10	20	25	X1M-11-*
0.05-250	0.05-250	+23	7.0	+16	40	30	X1H-01-*
0.5-1000	0.5-1000	+23	8.0	+16	25	20	X1H-02-*
1-1000	1-1000	+23	7.5	+16	25	20	X1H-03-*
1-2500	1-1000	+23	8.5	+16	25	20	X1H-09-*
5-3000	5-2000	+23	8.5	+16	25	25	X1H-10-*
5-4200	5-2000	+23	10.0	+16	20	25	X1H-11-*
0.05-250	0.05-250	+27	7.0	+20	40	30	X1V-01-*
0.5-1000	0.5-1000	+27	8.0	+20	25	20	X1V-02-*
1-1000	1-1000	+27	7.5	+20	25	20	X1V-03-*
1-2500	1-1000	+27	8.5	+20	25	20	X1V-09-*
5-3000	5-2000	+27	8.5	+20	25	25	X1V-10-*
5-4200	5-2000	+27	10.0	+20	20	25	X1V-11-*

* Available in outline # 101, 103, 104, 108 & 301

* Available in outline # 411 & 414 - SMA female connectors are standard, no suffix required
Outline # 411 is available with BNC, TNC & N connectors - Specify by adding B, T or N suffix to P/N

DOUBLE BALANCED MIXERS

DC COUPLED I.F.

Frequency Range LO/RF (MHz) IF (1) (MHz)		LO Drive (dBm)	Conversion Loss (dB) max.	1 dB Comp. Pt. (dBm) typ.	Isolation L/R (dB) min. L/I (dB) min.		P/N
0.01-100	DC-100	+7	6.0	+1	45	40	X2L-01-102
0.01-125	DC-125	+7	6.0	+1	40	35	X2L-02-102
0.1-500	DC-500	+7	7.5	+1	30	20	X2L-03-**
0.1-750	DC-750	+7	8.0	+1	25	20	X2L-04-**
0.5-1000	DC-1000	+7	8.5	+1	25	20	X2L-05-**
1-1000	DC-1000	+7	8.0	+1	25	20	X2L-06-**
800-1000	DC-200	+7	7.5	+1	25	20	X2L-07-**
10-1500	DC-1000	+7	8.5	+1	25	20	X2L-08-**
800-2500	DC-400	+7	8.0	+1	20	15	X2L-09-*
800-4000	DC-700	+7	9.0	+1	25	20	X2L-10-**
0.01-100	DC-100	+17	6.0	+10	45	40	X2M-01-102
0.01-125	DC-125	+17	6.0	+10	40	35	X2M-02-102
0.1-500	DC-500	+17	7.5	+10	30	20	X2M-03-**
0.1-750	DC-750	+17	8.0	+10	25	20	X2M-04-**
0.5-1000	DC-1000	+17	8.5	+10	25	20	X2M-05-**
1-1000	DC-1000	+17	8.0	+10	25	20	X2M-06-**
800-1000	DC-200	+17	7.5	+10	25	20	X2M-07-**
10-1500	DC-1000	+17	8.5	+10	25	20	X2M-08-**
800-2500	DC-400	+17	8.0	+10	20	15	X2M-09-*
800-4000	DC-700	+17	9.0	+10	25	20	X2M-10-**
0.01-100	DC-100	+23	6.0	+17	45	40	X2H-01-102
0.01-125	DC-125	+23	6.0	+17	40	35	X2H-02-102
0.1-500	DC-500	+23	7.5	+17	30	20	X2H-03-**
0.1-750	DC-750	+23	8.0	+17	25	20	X2H-04-**
0.5-1000	DC-1000	+23	8.5	+17	25	20	X2H-05-**
1-1000	DC-1000	+23	8.0	+17	25	20	X2H-06-**
800-1000	DC-200	+23	7.5	+17	25	20	X2H-07-**
10-1500	DC-1000	+23	8.5	+17	25	20	X2H-08-**
800-2500	DC-400	+23	8.0	+17	20	15	X2H-09-*
800-4000	DC-700	+23	9.0	+17	25	20	X2H-10-**

* Available in outline # 101 (models above 1500 MHz - Pin 4 is grounded)

* Available in outline # 411 & 414 - SMA female connectors are standard, no suffix required

** Available in outline # 101, (models above 1500 MHz - Pin 4 is grounded), 103, 108 & 301

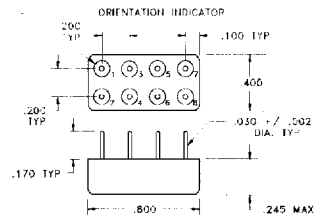
** Available in outline # 411 & 414 - SMA female connectors are standard, no suffix required

Outline # 411 is available with BNC, TNC & N connectors - Specify by adding B, T or N suffix to P/N

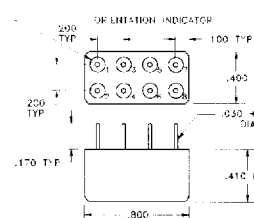
Notes: (1) Polarity is negative for DC coupled mixers.

MIXERS

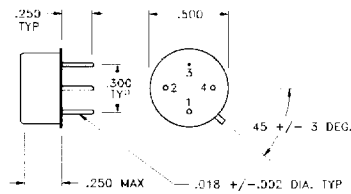
AC & DC COUPLED I.F.



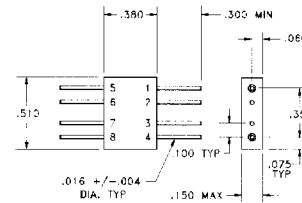
Outline 101



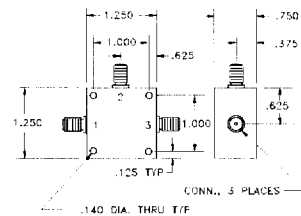
Outline 102



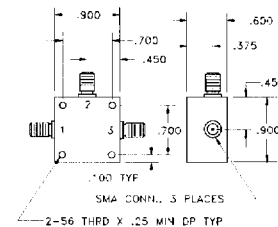
Outline 108



Outline 301



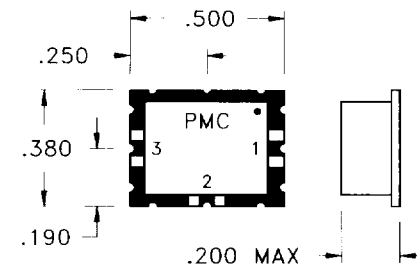
Outline 411



Outline 414

AC Coupled Port Configuration

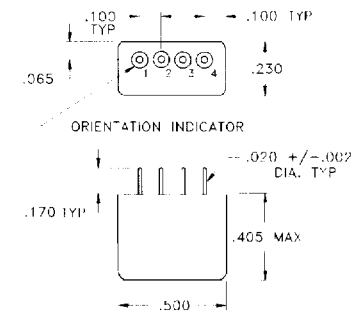
Outline	RF	LO	IF	Ground
101	1	8	3	2,5-7
103	1	4	2	3
104	1	8	3	2,5-7
108	4	2	1	3
301	1	4	5	2,3,6-8
411	1	3	2	Housing
414	1	3	2	Housing



Outline A

DC Coupled Port Configuration

Outline	RF	LO	IF	Ground
101	1	8	3,4	2,5-7
103	1	8	3,4	2,5-7
104	1	4	2	3
108	4	2	1	3
301	1	4	5	2,3,6-8
411	1	3	2	Housing
414	1	3	2	Housing



Outline 103