

# MIXERS

# TRIPLE-BALANCED

$LO = +17\text{ dBm}$

VERY HIGH DYNAMIC RANGE

## SURFACE MOUNT

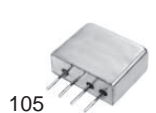


FREQUENCY RANGE (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			PACKAGE	PIN OUT	MODEL
RF/LO	IF	XMB TYP/MAX	FULL BAND TYP/MAX	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN			
5 - 1000	5 - 1000	6.5/8	7.5/9.5	35/20	40/30	30/23	30/20	30/20	25/20	159	1	SLD-K5M
25 - 1800	25 - 1000	7.5/8.5	8/9	50/30	45/25	35/20	35/15	25/15	23/15	133	2	SMD-C5M
750 - 2500	50 - 880	7/8.5	8/9.2	44/35	--/--	40/30	38/28	--/--	25/20	133	2	SMD-C7M*

\*XMB = 750 - 1000 MHz

\*LB = 750 - 1200 MHz

\*UB = 1200 - 2500 MHz



## THROUGH HOLE (RELAY)

FREQUENCY RANGE (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			PACKAGE	PIN OUT	MODEL
RF/LO	IF	XMB TYP/MAX	FULL BAND TYP/MAX	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN			
0.05-200	0.05-200	5.5/6.5	6.5/7	45/30	50/45	45/40	35/25	40/35	35/20	102	3	CMP-206
5-1200	1-1200	6/7	7/8.5	50/35	45/30	40/25	40/30	35/25	35/20	102	4	CMP-231
10-2500	10-1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	103	3	CMP-205
10-2500	10-1000	7.0/8.0	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	105	5	CMP-305
10-3000	10-1000	8/11	10/12	29/20	25/18	23/14	27/20	25/12	23/16	102	3	CMP-2A8
500-3700	500-1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	103	3	CMP-210
500-3700	500-1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	105	5	CMP-310

### NOTES:

1. 1dB Compression Point = +14 dBm (Typ)
2. IP3 (Input) = +26 dBm (Typ)
3. As IF frequency decrease below LF towards DC, conversion loss increases up to 8 dB higher than maximum.
4. Maximum Input Power without damage = 500 mW ave. cw

XMB= 2LF to HF/2
FULL BAND = LF to HF
LB= LF to 10LF
MB = 10LF to HF/2
UB= HF/2 to HF

### PIN-OUT TABLE

	RF	LO	IF	GND	CASE GND	NO CONN.
#1	4	1	5	2,3,6	--	--
#2	1	2	3	4,5,6	--	--
#3	1	8	3	2,5,6,7	2,5,6,7	4
#4	1	3,4*	8	2,5,6,7	2,5,6,7	--
#5	1	4	2	3	3	--

\* Pins must be connected together

GND = Ground externally

For pin location and package outline drawings, see back pages.

# MIXERS

# TRIPLE-BALANCED

*LO = +17 dBm*

VERY HIGH DYNAMIC RANGE

## THROUGH HOLE (TO-CAN)



FREQUENCY RANGE (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			PACKAGE	PIN OUT	MODEL
RF/LO	IF	XMB TYP/MAX	FULL BAND TYP/MAX	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN			
0.05 - 200	0.05 - 200	5.5/6.5	6.5/7	45/30	50/45	45/40	35/25	40/35	35/30	123	1	<b>CMP-506</b>
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	104	1	<b>CMP-505</b>
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	122	2	<b>CMP-605</b>
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	122	2	<b>CMP-610</b>

## FLAT-PACK



FREQUENCY RANGE (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			PACKAGE	PIN OUT	MODEL
RF/LO	IF	XMB TYP/MAX	FULL BAND TYP/MAX	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN			
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	101	3	<b>CMF-105</b>
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	101	3	<b>CMF-110</b>

## COAXIAL



FREQUENCY RANGE (MHz)		CONVERSION LOSS (dB)		LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			PACKAGE	PIN OUT	MODEL
RF/LO	IF	XMB TYP/MAX	FULL BAND TYP/MAX	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN	LB TYP/MIN	MB TYP/MIN	UB TYP/MIN			
0.05 - 200	0.05 - 200	5.5/6.5	6.5/7	45/30	50/45	45/40	35/25	40/35	35/30	110	4	<b>CMK-706*</b>
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	110	4	<b>CMK-705S</b>
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	110	4	<b>CMK-710S</b>

### NOTES:

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2. IP3 (Input) = +26 dBm (Typ)
3. As IF frequency decrease below LF towards DC, conversion loss increases up to 8 dB higher than maximum.
4. Maximum Input Power without damage = 500 mW ave. cw

\* Connector style: "B" = BNC, "T" = TNC, "N" = Type N, "S" = SMA

XMB= 2LF to HF/2
FULL BAND = LF to HF
LB= LF to 10LF
MB = 10LF to HF/2
UB= HF/2 to HF

### PIN-OUT TABLE

	RF	LO	IF	GND	CASE GND
#1	2	5	11	All Others	All Others
#2	1	3	2	4	4
#3	1	4	5	2,3,6,7,8	2,3,6,7,8
#4	1	3	2	--	--

GND = Ground externally

For pin location and package outline drawings, see back pages.