

MIXERS

TRIPLE-BALANCED

$LO = +23 \text{ dBm}$

SUPER 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-K5H
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-C5H
750 - 2500	50 - 880	7/8.5	8/9.2	44/35	--/--	40/30	38/28	--/--	25/20	133	2	SMD-C7H*

*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	35/30	102	3	CHP-206
0.1 - 500	0.5 - 500	5.3/6	5.3/7.5	40/20	46/35	40/30	37/23	46/35	40/30	102	3	CHP-2B3
0.1 - 1000	0.01 - 500	5.3/7.5	7.5/9.5	40/20	40/30	30/25	37/23	40/25	25/20	102	3	CHP-2A4
10 - 2400	5 - 1000	7/8.5	8/10	28/20	26/20	25/20	28/20	26/20	25/20	102	3	CHP-2B7
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	103	3	CHP-205
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	105	4	CHP-305
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	103	3	CHP-210
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	105	4	CHP-310

NOTES:

- 1dB Compression Point = +20 dBm (Typ)
- IP3 (Input) = +30 dBm (Typ)
- As IF frequency decrease below LF towards DC, conversion loss increases up to 8 dB higher than maximum.
- Maximum Input Power without damage = 1 Watt 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	4	2	3	3	--

GND = Ground externally

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



MIXERS

TRIPLE-BALANCED

LO = +23 dBm

SUPER 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	CHP-506
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	104	1	CHP-505
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	122	2	CHP-605
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	122	2	CHP-610

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	CHF-105
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	101	3	CHF-110

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	CHK-706*
0.1 - 500	0.01 - 500	5.3/6	5.3/7.5	47/20	46/35	40/30	47/40	46/35	40/30	110	4	CHK-7M3*
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	110	4	CHK-705S
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	110	4	CHK-710S

NOTES:

- 1dB Compression Point = +20 dBm (Typ)
- IP3 (Input) = +30 dBm (Typ)
- As IF frequency decrease below LF towards DC, conversion loss increases up to 8 dB higher than maximum.
- Maximum Input Power without damage = 1 Watt ave. cw

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

PIN-OUT TABLE

	RF	LO	IF	GND	CASE GND	NO CONN.
#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.

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