

MIXERS

TRIPLE-BALANCED

LO = +27 dBm

ULTRA HIGH DYNAMIC RANGE

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	1	CVP-206
0.5 - 500	0.2 - 500	6/7.5	7.5/8.5	47/40	46/35	35/25	47/40	46/35	35/25	102	1	CVP-2K3
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	103	1	CVP-205
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	103	1	CVP-210
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	105	2	CVP-305
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	105	2	CVP-310

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	3	CVP-506
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	104	3	CVP-505
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	122	4	CVP-605
500 - 3700	500 - 1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	122	4	CVP-610

NOTES:

- 1dB Compression Point = +24 dBm (Typ)
- IP3 (Input) = +34 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 = 1.5 Watts 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	1	8	3	2,5,6,7	2,5,6,7	4
#2	1	4	2	3	3	--
#3	2	5	11	all others	all others	--
#4	1	3	2	4	4	--

GND = Ground externally

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

MIXERS

TRIPLE-BALANCED

LO = +27 dBm

ULTRA HIGH DYNAMIC RANGE

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	1	CVF-105
500 - 3700	500 -1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	101	1	CVF-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	2	CVK-706*
10 - 2500	10 - 1000	7/8	7.5/8.5	55/35	45/30	35/25	35/20	30/20	27/20	110	2	CVK-705S
500 - 3700	500 -1000	--/--	9.5/11.5	45/25	45/25	45/25	40/20	40/20	40/20	110	2	CVK-710S

NOTES:

1. 1dB Compression Point = +24 dBm (Typ)
2. IP3 (Input) = +34 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 = 1.5 Watts 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	1	4	5	2,3,6,7,8	2,3,6,7,8
#2	1	3	2	--	--

GND = Ground externally
For pin location and package outline drawings, see back pages.