



ANZAC RF & CELLULAR COMPONENTS

Low Cost Frequency Mixers

LEVEL 17S (+17 dBm LO, up to +14 dBm RF)

MODEL NO.	FREQUENCY MHz		CONVERSION LOSS dB		LO-RF ISOLATION dB			LO-IF ISOLATION dB			CASE	PIN OUT	UNIT PRICE (\$) (1 - 9)								
	LO/RF	IF	Mid-Band	Total Range	L	M	U	L	M	U											
														FL-Fu	Typ.	Max.	Typ.	Max.	Typ.	Min	Typ.
EMT-1H	2.0 - 500	DC - 500	6.0	7.5	7.0	8.5	50	45	40	30	30	20	45	40	35	25	25	20	R3	4	25.75
EMT-2H	5.0 - 1000	DC - 1000	6.2	7.0	7.0	10.0	50	45	40	30	30	20	45	40	35	25	25	17	R3	4	36.75
EMT-3H	0.1 - 250	DC - 250	5.0	7.0	6.0	8.5	50	45	40	30	28	23	45	40	35	25	26	20	R3	4	25.75
EMT-4H	5.0 - 1200	DC - 1200	6.5	8.0	7.0	9.0	50	40	35	25	30	20	50	40	35	20	30	20	R3	4	39.25
EMK-1H	2.0 - 500	DC - 500	6.0	7.5	7.0	8.5	50	40	40	30	30	25	45	35	35	25	25	20	R5	3	21.25
EMK-1WH	5.0 - 750	DC - 750	6.2	7.5	7.0	9.0	50	40	40	30	30	25	45	35	35	25	30	20	R5	6	25.75
EMK-3H	0.05 - 300	DC - 300	5.0	7.0	6.0	8.5	55	45	40	30	30	25	50	40	35	25	25	20	R5	3	23.25
# EMA-173HX	5.0 - 1200	1 - 1200	6.0	7.0	7.0	8.5	40	35	35	25	35	20	40	35	35	20	30	20	R1	5,6	43.10
EMRS-1H	0.5 - 500	DC - 50	5.5	7.0	6.2	8.5	55	50	33	25	27	20	55	45	30	23	24	19	SM1	9	10.75
EMRS-2H	5.0 - 1000	DC - 1000	6.5	8.0	7.0	9.5	60	40	40	20	25	18	55	30	30	20	20	12	SM1	9	11.75
EMRS-5H	5.0 - 1500	DC - 1000	6.5	7.5	7.5	9.5	60	40	40	20	30	18	55	30	30	18	15	8	SM1	9	17.75
ESMD-C2H	20.0 - 1500	DC - 1500	—	—	7.0	9.0	—	—	—	—	35	10	—	—	—	—	25	8	SM2	10	14.35
# ESMD-C2HX2	819 - 915	20 - 100	—	—	7.0	7.5	—	—	—	—	30	25	—	—	—	—	20	15	SM2	10	41.85
ESMD-C3H	20.0 - 2500	20.0 - 600	—	—	7.5	10.5	—	—	—	—	45	15	—	—	—	—	40	12	SM2	10	37.10

L = Low Range (FL - 10FL)

M = Mid Range (10FL - FU/2)

m = Mid Band (2FL - FU/2)

U = Upper Range (FU/2 - FU)

PIN OUT TABLE - FREQUENCY MIXERS

PIN OUT NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
LO	8	8	8	4	3,4*	8	8	1	1	2	8	1	4	8	8
RF	1	3,4*	1	1	1	1	1	4	4	1	5	3	1	1	1
IF	3,4*	1	3,4*	2	8	3,4*	3	2	5	3	4	2	2	3	3,4*
Ground	2,5,6,7	2,5,6,7	2,5,6,7	3	2,5,6,7	2,5,6,7	2,5,6,7	3	2,3,6	4,5	2,3,6,7	—	3,5,6	2,5,6,7	2,5,6,7
Case Ground	—	2,5,6,7	2	3	2,5,6,7	2,5,6,7	2,5,6,7	3	—	—	2,3,6,7	—	3,5,6	—	2,7

*Pins must be connected externally

†Available in BNC, SMA connectors

Typical IMD3 = +29dBm

CASE STYLE: R = RELAY HEADER; SM = SURFACE MOUNT; C = CONNECTORIZED
 PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

NOTES:

- Absolute maximum ratings:
 - RF Power: 50mW (for level 7 and level 10)
 - 200mW (for level 13 and level 17)
 - Peak IF Current: 40mA
 - Operating and storage temperature: -55°C to +100°C
 - Pin temperature (10s): +260°C
- Price and specifications subject to change without notice.

Immediate Delivery from Stock