



ANZAC RF & CELLULAR COMPONENTS

Low Cost Frequency Mixers

LEVEL 17 (+17 dBm LO, up to +10 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.	Min	Typ.	Min	Typ.	Min				Typ.	Min						
EMA-1H	0.5 - 500	DC - 500	5.5	7.5	6.5	8.5	55	45	45	30	35	25	45	35	40	30	30	20	R1	3	20.75
EMA-1WH	1.0 - 750	DC - 750	5.5	7.5	6.5	8.5	50	40	45	25	35	25	45	35	40	30	30	20	R1	6	24.75
EMA-2H	2.0 - 1000	DC - 1000	6.0	7.5	8.5	10.0	50	40	35	25	35	25	45	30	30	20	25	20	R1	6	38.75
EMA-3H	0.05 - 200	DC - 200	5.5	7.0	5.5	7.5	50	45	40	30	35	25	45	35	40	30	30	20	R1	3	22.75
EMA-11H	10.0 - 3000	10 - 1000	8.0	10.0	10.0	12.0	27	20	25	18	23	16	27	20	25	18	23	16	R1	7	47.75
EMA-173H	5.0 - 1200	DC - 1200	6.0	7.0	7.0	8.5	40	35	35	25	35	20	40	35	35	20	30	20	R1	5,6	31.75
EMS-1H	0.5 - 500	DC - 500	5.5	7.5	6.5	8.5	55	45	45	30	35	25	45	35	40	30	30	20	R1	3	5.35
EMAZ-1H	0.5 - 500	DC - 500	5.5	7.5	6.5	8.5	50	45	45	30	35	25	45	35	40	30	30	20	C9†	12	48.75
EMAZ-2H	2.0 - 1000	DC - 1000	6.0	7.5	8.5	10.0	50	40	35	25	35	25	45	35	30	20	25	20	C9†	12	59.75

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

CASE STYLE: C = CONNECTORIZED; FP = FLATPACK; TO-8 = TO-8 PLUG IN; SM = SURFACE MOUNT;
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