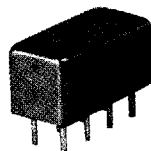


50 KHz to 1.2 GHz

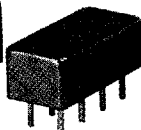
Mini-Circuits**ULTRA-REL™ MIXERS**

5-YR. GUARANTEE*

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



SRA-H



SMA-H



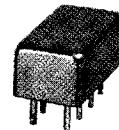
GRA-H



RMS-H



LRMS-H

TFM-H
TUF

TAK-H



SYM-H

MODEL NO.	FREQUENCY MHz		CONVERSION LOSS dB				LO-RF ISOLATION, dB						LO-IF ISOLATION, dB						PRICE \$	DISTRIBUTOR	
	LO/RF f_L - f_U	IF	Mid-Band m			Total Range Max.	L		M		U		L		M		U		Qty. (1-9)	FACTORY	LOCAL
			$\bar{x}$	σ	Max.		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.			
□ RMS-H case TT-100	RMS-1H	2-500 DC-500	6.25	.034	7.0	8.5	55	44	44	25	33	20	50	34	45	25	37	22	10.95	•	•
	RMS-1WH	5-750 DC-750	7.00	.11	8.5	8.8	55	40	43	22	28	20	52	30	38	22	29	20	11.95	•	•
	RMS-2H	5-1000 DC-900	6.98	.054	8.5	9.3	55	40	39	22	33	20	52	30	45	22	30	17	11.95	•	•
	RMS-2UH	10-1000 10-750	7.10	.083	8.5	9.6	50	40	38	30	30	23	50	30	40	25	34	22	14.45	•	•
	RMS-5H	10-1500 DC-900	6.36	.05	8.0	9.8	65	40	36	20	22	15	50	30	30	18	17	7	17.95	•	•
□ LRMS-H case QQ-130	LRMS-1H	2-500 DC-500	6.25	.034	7.0	8.5	55	44	44	25	33	20	50	34	45	25	37	22	10.95	•	•
	LRMS-1WH	5-750 DC-750	7.00	.11	8.5	8.8	55	40	43	22	28	20	52	30	38	22	29	20	11.95	•	•
	LRMS-2H	5-1000 DC-900	6.98	.054	8.5	9.3	55	40	39	22	33	20	52	30	45	22	30	17	11.95	•	•
	LRMS-2UH	10-1000 10-750	7.10	.083	8.5	9.6	50	40	38	30	30	23	50	30	40	25	34	22	14.45	•	•
	LRMS-5H	10-1500 DC-900	6.36	.05	8.0	9.8	65	40	36	20	22	15	50	30	30	18	17	7	17.95	•	•
□ TFM-H case B02	TFM-1H	2-500 DC-500	6.14	.11	7.5	8.5	50	45	40	30	30	20	45	40	35	25	25	20	25.95	•	•
	TFM-2H	5-1000 DC-1000	6.12	.12	7.0	10	50	45	40	30	30	20	45	40	35	25	25	17	36.95	•	•
	TFM-3H	.1-250 DC-250	4.58	.11	7.0	8.5	50	45	40	30	28	23	45	40	35	25	26	20	25.95	•	•
case B13	TFM-4H	5-1200 DC-1200	5.24	.05	8.0	9.0	50	40	35	25	30	20	50	40	35	20	30	20	39.45	•	•
□ TAK-H case A05	TAK-1H	2-500 DC-500	5.93	.08	7.5	8.5	50	40	40	30	30	25	45	35	35	25	25	20	21.45	•	•
	TAK-1WH	5-750 DC-750	5.71	.08	7.5	9.0	50	40	40	30	30	25	45	35	35	25	30	20	25.95	•	•
	TAK-3H	.05-300 DC-300	4.82	.09	7.0	8.5	55	45	40	30	30	25	50	40	35	25	25	20	23.45	•	•
□ ZFM-H case K18	ZFM-1H	2-500 DC-500	6.14	.11	7.5	8.5	50	45	40	30	30	25	45	35	35	25	25	20	64.95	•	•
	ZFM-2H	5-1000 DC-1000	6.12	.12	7.0	10	50	40	40	30	30	20	45	40	35	25	25	17	71.95	•	•
	ZFM-3H	.05-300 DC-300	5.18	.11	7.0	8.5	55	45	40	30	30	25	50	40	35	25	25	20	64.95	•	•
	ZFM-4H	5-1200 DC-1200	4.97	.11	8.0	9.0	50	40	35	25	30	20	50	40	35	20	30	20	73.95	•	•
□ ZLW-SH case M21	ZLW-1SH	2-500 DC-500	5.93	.08	7.5	8.5	50	40	40	30	30	25	45	35	35	25	25	20	62.95	•	•
	ZLW-1WSH	5-750 DC-750	5.83	.07	7.5	9.0	50	45	40	30	30	20	45	40	35	25	30	20	66.95	•	•
	ZLW-3SH	.05-300 DC-300	4.65	.09	7.0	8.5	55	45	40	30	30	25	50	40	35	25	25	20	64.95	•	•
□ ZAD-SH case M22	ZAD-1SH	2-500 DC-500	5.98	.08	7.5	8.5	50	40	40	30	30	25	45	35	35	25	25	20	54.95	•	•
	ZAD-1WSH	5-750 DC-750	5.64	.08	7.5	9.0	50	45	40	30	30	20	45	40	35	25	30	20	56.95	•	•
	ZAD-3SH	.05-300 DC-300	5.08	.09	7.0	8.5	55	45	40	30	30	25	50	40	35	25	25	20	55.95	•	•
□ TUF-H case B02	TUF-1H	2-600 DC-600	5.9	.18	7.0	8.0	68	50	50	30	43	25	62	45	48	30	33	22	9.25	•	•
	TUF-2H	50-1000 DC-1000	6.2	.22	7.5	9.0	58	40	47	30	42	25	58	35	44	25	28	18	10.20	•	•
	TUF-3H	0.15-400 DC-400	5.0	.33	7.0	8.0	60	50	50	35	40	30	60	40	45	25	35	20	11.10	•	•
	TUF-5H	20-1500 DC-1000	7.5	.17	8.5	9.0	62	55	50	40	38	25	40	25	29	18	20	8	14.45	•	•
	TUF-11AH	1400-1900 40-500	7.3	.28	9.0	9.0	—	—	35	25	—	—	—	—	30	15	—	—	21.95	•	•
	TUF-860H	800-1050 DC-250	6.8	.31	8.3	8.3	—	—	38	25	—	—	—	—	24	18	—	—	14.45	•	•

L=low range (f_L to $10 f_L$)M=mid range ($10 f_L$ to $f_U/2$)U=upper range ($f_U/2$ to f_U)m=mid band ($2f_L$ to $f_U/2$)

pin and coaxial connections see case style outline drawing

Series	TUF-H TFM-H	TAK-H	ZFM-H	ZLW-H ZLW-SH	ZAD-H ZAD-SH	RMS-H LRMS-H	SRA				GRA-H	SIMA-H	SYM-H
Models	all models	1H — 1WH — 3H	all models	all models	all models	all models	— 1H — 3H — 6H▲	— 1WH — 2H	— 11H	— 173H Configuration 1 2	all models	— 5H	all models
LO	4	8	8	1	1	1	8	8	8	3,4*	1	8	2
RF	1	1	1	2	3	4	1	1	1	1	6	1	1
IF	2	3,4*	3,4*	3	2	5	3,4*	3,4*	3	8	4	3	3
GND♦	3	2,5,6,7	2,5,6,7	—	—	—	2,5,6,7	2,5,6,7	2,5,6,7	2,5,6,7	2,3,5	4	4,5,6
CASE GND	3	2	2,5,6,7	—	—	—	2	2,5,6,7	2,5,6,7	2,5,6,7	—	2,5,6,7	—
NOT USED													

*pins must be connected externally ♦Ground externally. All measurements made with GND pin(s) grounded externally. ▲Pin 2 is not case grounded

In Stock...Immediate Delivery

