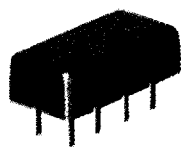


500 Hz to 3.5 GHz

Mini-Circuits**ULTRA-REL™ MIXERS**

5-YR. GUARANTEE *

T-90-60



TAK



TSM



SAM

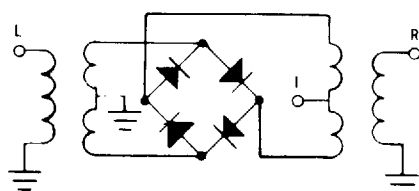


ROSE

		FREQUENCY MHz		CONVERSION LOSS dB				LO-RF ISOLATION, dB			LO-IF ISOLATION, dB			PRICE \$	DISTRIBUTOR							
		MODEL NO.	LO/RF f_L-f_U	IF	Mid-Band		Total Range Max.	L Typ. Min.	M Typ. Min.	U Typ. Min.	L Typ. Min.	M Typ. Min.	U Typ. Min.	Qty. (1-9)	F A C T O R Y	L O C A L						
					$\bar{x}$	σ																
TAK case A04	TAK-5	.01-250	DC-250	4.65	.02	7.0	8.5	60	50	50	35	40	35	55	45	45	30	35	25	20.95	●	●
	TAK-5R	.05-200	DC-200	4.70	.05	6.5	8.0	55	50	45	35	45	35	50	45	40	30	40	30	20.95	●	●
	TAK-6	.5-600	DC-600	5.58	.04	7.5	8.5	60	50	50	30	40	25	55	45	45	30	30	20	20.95	●	●
	TAK-6R	0.5-600	DC-600	5.40	.11	7.0	8.0	55	50	45	30	35	30	45	40	40	25	30	25	20.95	●	●
	TAK-7	2-1000	5-500	5.86	.08	7.5	8.5	45	30	35	20	30	20	45	30	35	20	30	20	20.95	●	●
TSM case A11	TSM-1	1-600	DC-600	5.71	.04	7.5	8.5	60	45	45	35	35	25	55	45	40	30	35	25	19.95	●	●
	TSM-2	1-1000	DC-1000	5.55	.08	7.5	10.0	55	45	40	20	35	18	50	40	40	20	25	18	20.95	●	●
	TSM-3	0.1-500	DC-500	4.75	.04	7.5	8.5	60	50	50	35	35	25	55	45	45	30	35	25	21.95	●	●
	†TSM-5	5-1500	DC-1000	6.16	.04	8.5	9.5	60	45	35	25	30	25	60	45	35	25	25	16	27.95	●	●
SAM case A03	SAM-1	1-600	DC-600	5.67	.05	7.0	8.5	55	45	45	30	35	20	50	40	40	25	30	20	16.95	●	●
	SAM-2	1-1000	DC-1000	5.68	.08	7.5	9.5	55	45	40	25	35	20	50	40	40	25	30	25	20.45	●	●
	SAM-3	0.1-500	DC-500	5.04	.07	7.0	8.5	60	50	50	35	35	30	50	40	45	30	30	20	19.95	●	●
	SAM-4	5-1250	0.5-1000	5.98	.18	8.5	8.5	55	40	35	25	30	20	50	40	35	25	30	20	23.95	●	●
	SAM-5	5-1500	0.5-1000	5.81	.08	7.5	8.5	55	40	35	25	30	20	50	40	35	25	30	20	29.95	●	●
ROSE case PP94	ROSE-1	1-600	DC-600	5.08	.03	6.5	7.5	40	30	35	25	30	20	55	40	40	20	25	18	11.95	●	●
	ROSE-2	1-1000	DC-1000	5.60	.23	7.0	8.0	61	45	37	22	25	18	55	40	26	17	16	12	16.95	●	●

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 ($2 f_L$ to $f_U/2$)

schematic



MIL-M-28837/1, NSN GUIDE

MCL NO.	NSN	MIL-M-28837/1*
GRA-1	5895-00-480-2849	
GRA-3	5895-01-169-1815	
GRA-8	5895-01-217-5627	
SAM-1	5895-01-117-2926	
SAM-2	5895-01-165-6621	
SAM-3	5895-01-062-9973	
SAM-5	5895-01-036-9507	
SBL-1	5895-01-126-4913	
SBL-1X	5895-01-179-8084	
SRA-1	5895-00-008-8272 03	
SRA-1-1	5962-01-113-5431	
SRA-1-TX	5895-01-163-9247	
SRA-1-1-TX	5895-01-151-6753	
SRA-11-TX	5895-01-163-9248	
SRA-1W	5895-01-163-0433 09	
SRA-3	5895-01-024-5914	
SRA-4	5826-01-155-6545	
SRA-6	5895-01-124-0117	
SRA-8	5985-01-081-0977	
SRA-11	5895-01-273-0883	
SBL-3	5895-01-326-6030	
TAK-5	5895-01-271-0842	
TAK-6	5895-01-231-2372	
TSM-1	5895-01-121-7958	

*units are not QPL-listed

pin connections see case style outline drawing

TAK				TSM	SAM			ROSE
-5	-7	-5R	-6R	all models (Δ)	-1	-4	-2	-1
-6					-3	-5		
8	8	8	1	8	8	8	8	1
1	3,4*	1	8	1	1	3,4*	1	3
3,4*	1	3,4*	5,6*	3,4*	3,4*	1	3,4*	2
2,5,6,7	2,5,6,7	2,5,6,7	2,3,4,7	2,5,6,7	2,5,6,7	2,5,6,7	2,5,6,7	—
2	2,5,6,7	—	3,4,7	2	2	2,5,6,7	2,5,6,7	4

Δ TSM-5, CASE GROUND 2,7; TSM-2 CASE GROUND 2, 5, 6, 7.

* Pins must be connected together externally.

In Stock...Immediate Delivery

