

LEVEL 17 150 kHz to 8 GHz



JYM

+17 dBm LO, up to +10 dBm RF

MODEL NO.	FREQUENCY MHz		CONVERSION LOSS dB				LO-RF ISOLATION dB			LO-IF ISOLATION dB			IP3@ center band Typ. (dBm)	E factor	CASE STYLE	CONNECTION	PRICE \$								
	LO/RF f _L -f _U	IF	Mid-Band		Total Range	Max.	L	M	U	L	M	U					Qty. (10-49)								
			—	m														σ	Max.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.	Typ. Min.
			x	σ																					
JYM-28H	400-2800	4-700	6.3	.20	8.0	9.0	40 (Typ.)	25 (Min.)	25	30 (Typ.)	15 (Min.)	15	23	0.6	BJ293	hp	21.95								
JYM-30H	2-3000	4-1400	6.0	.20	8.9	10.6	40 30	40 25	30 25	40 35	30 20	22 15	24	0.7	BJ293	hp	23.95								

E= [IP3(dBm)-LO Power(dBm)]/10

L = low range [f_L to $10 f_L$]

M = mid range [$10 f_L$ to $f_U/2$]

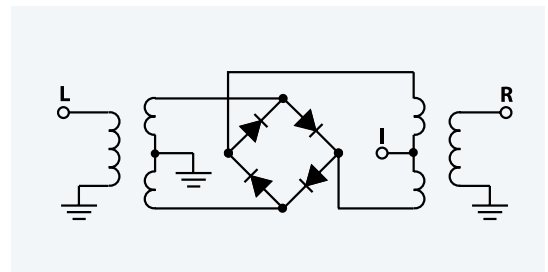
U = upper range [$f_U/2$ to f_U]

m = mid band [$2f_L$ to $f_U/2$]

see suggested PCB layouts: PL-080 for JYM models

NOTES:

- $\bar{x}$ Average of conversion loss at center of mid-band frequency ($f_L + f_U/4$)
- σ Standard deviation
- ◆ Aqueous washable. For non-aqueous washable requirements, LRMS units available in case style QQQ130
- † Phase detection, positive polarity
- †† Conversion loss increases 0.5 dB when IF is above 150 MHz.
- * Conversion loss at 30 MHz IF, increases with IF frequency.
- ※ 15 dB min. over 1500-1800MHz
- ** Protected under U.S. Patent 6133525
- *** Prices for quantities 10-49
- A. Environmental specifications and re-flow soldering information available in General Information Section.
- B. Units are non-hermetic unless otherwise noted. For details on case dimensions & finishes see "Case Styles & Outline Drawings".
- C. Prices and Specifications subject to change without notice.
- 1. Absolute maximum power, voltage and current ratings:
 - 1a. RF power 200mW
 - 1b. Peak IF current, 40mA



pin connections

see case style outline drawings

PORT	w	x	z	hp	ht ¹	je	jv	jw	ka	lc	ld	lp
LO	1	2	4	5	6	1	6	4	11	10	10	3
RF	4	1	1	1	3	5	4	6	5	5	5	1
IF	5	3	2	7	2	7	3	3	2	3	3	2
GND EXT.	2,3,6	4,5,6	3	2,3,4,6,8	1,4,5	2,3,4,6,8	1,2,5	1,2,5	all other pins	1,4,7,8,9	1,2,4,6,7,8,9	4,5,6
CASE GND	—	—	3	—	—	—	—	—	—	—	—	—
ISOLATE	—	—	—	—	—	—	—	—	—	2,6	—	—
DEMO BOARD	TB-44	TB-12	TB-201	TB-259	TB-03	TB-11	TB-02	TB-02	TB-199	TB-117	TB-144 (MCA1)	TB-12

¹ pin connection physically same as w



ADE/ADEX



JMS



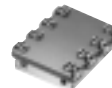
LRMS-J



MCA1



LRMS



SKY



SYM



TUF-SM

+17 dBm LO, up to +14 dBm RF

MODEL NO.	FREQUENCY MHz		CONVERSION LOSS dB				LO-RF ISOLATION dB						LO-IF ISOLATION dB						IP3@ center band Typ. (dBm)	E factor	CASE STYLE	CONNECTION	PCB Lay-out PL-	PRICE \$	
	LO/RF f_L - f_U	IF	Mid-Band		Max.	Total Range Max.	L	M	U				L	M	U									Qty. (1-9)	
			$\bar{x}$	σ																					
◆ ADE-1H**	0.5-500	DC-500	5.3	.10	6.8	8.0	65	50	52	35	40	26	53	40	42	25	32	20	23	0.6	CD636	ht	052	4.95***	
◆ ADE-1HW**	5-750	DC-750	6.0	.10	7.2	8.8	64	45	48	35	42	28	50	35	40	30	30	18	26	0.9	CD542	ht	052	6.45***	
◆ ADE-17H**	100-1700	50-1500	7.2	.10	8.5	9.5	32	20	—	—	36	22	32	20	—	—	37	22	25	0.8	CD542	ht	052	8.95***	
◆ ADEX-10H**	10-1000	DC-800†	7.0	.10	8.5	9.5	68	55	55	40	47	31	46	30	32	20	26	13	22	0.5	CD542	ht	052	3.45***	
JMS-1H	2-500	DC-500	5.90	.10	7.0	8.5	60	45	50	25	37	22	55	45	50	25	37	22	22	0.5	BH292	ht	052	11.45	
JMS-2H	20-1000	DC-1000	7.00	.15	8.4	9.5	63	40	50	28	35	20	56	30	47	22	37	20	24	0.4	BH292	ht	052	12.45	
JMS-5H	5-1500	DC-1000	5.90	.10	8.0	9.5	70	50	50	25	35	20	60	40	35	18	20	8	22	0.5	BH292	ht	052	12.95	
◆ LRMS-1HJ	2-500	DC-500	6.25	.034	7.0	8.5	55	44	44	25	33	20	50	34	45	25	37	22	25	0.8	QQQ569	w	083	10.95	
◆ LRMS-5HJ	10-1500	DC-900	6.36	.05	8.0	9.8	65	40	36	20	22	15	50	30	30	18	17	7	22	0.5	QQQ569	w	083	17.95	
NEW ◆ MCA1-80H*	2800-8000	DC-1250							34	22					12	8			24	0.7	DZ885	ld	045	11.95***	
	2800-5000	DC-1250	6.5	0.2	—	8.9*			35	21					35	18			21	0.4					
	5000-8000	DC-1250	6.0	0.2	—	8.9*																			
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	22	0.5	TT240	w	052	10.95	
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	23	0.6	TT240	w	052	11.95	
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	24	0.7	TT240	w	052	17.95	
SKY-60H	2500-6000	DC-1500	6.20	.20	—	9.7	28 (Typ.)	17 (Min.)					14 (Typ.)	8 (Min.)					23	0.6	BJ398	je	056	18.95	
SYM-10DHW	50-1000	20-800	7.0	—	8.5	9.8	48 (Typ.)	30 (Min.)					29 (Typ.)	20 (Min.)					25	0.8	TTT167	x	079	16.95	
SYM-36H	1500-3600	DC-600	6.3	.40	—	9.0	—	—	30	20	—	—	—	—	34	20d	—	—	25	0.8	TTT167	x	079	21.95	
TUF-1HSM	2-600	DC-600	5.90	.18	7.0	8.0	68	50	50	30	43	25	62	45	48	30	33	22	26	0.9	NNN150	z	081	10.20	
TUF-2HSM	50-1000	DC-1000	6.20	.22	7.5	9.0	58	40	47	30	42	25	58	35	44	25	28	18	21	0.4	NNN150	z	081	11.20	
TUF-3HSM	0.15-400	DC-400	5.00	.33	7.0	8.0	60	50	50	35	40	30	60	40	45	25	35	20	22	0.5	NNN150	z	081	12.45	
TUF-5HSM	20-1500	DC-1000	7.50	.17	8.5	9.0	62	55	50	40	38	25	40	25	29	18	20	8	20	0.3	NNN150	z	081	15.45	
TUF-11AHSM	1400-1900	40-500	7.30	.28	9.0	9.0	35 (Typ.)	25 (Min.)					30 (Typ.)	15 (Min.)					20	0.3	NNN150	z	081	23.95	

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