

Surface Mount

Frequency Mixers

818 to 1910 MHz

NEW

HIGH IP3



HJK



HUD

Features

- high IP3, up to 38 dBm
- compression, 3 dB higher than LO power

Applications

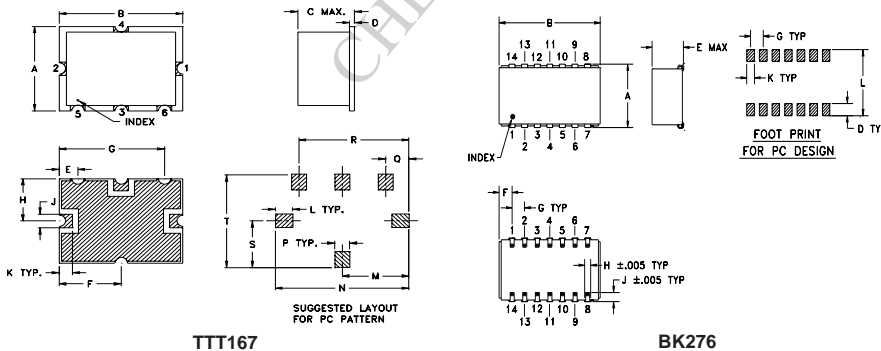
- base stations
- communication systems, cellular, PCS

Electrical Specifications

MODEL NO.	FREQUENCY (MHz)			LO level (dBm)	IP3 (dBm) Typ.	RF @ 1dB compr. (dBm) Typ.	CONVERSION LOSS (dB)			LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)		CASE STYLE	CONNECTION	PRICE \$ Qty. (1-9)
	RF	LO	IF				Typ.	σ	Max.	Typ.	Min.	Typ.	Min.			
HJK-9	818-853	753-778	40-100	7	22	10	7.1	0.3	8.7	36	24	26	20	TTT167	x	10.95
HJK-19	1850-1910	1780-1840	70-130	7	21	10	8.0	0.2	9.5	30	20	24	16	TTT167	x	10.95
HJK-21	1850-1910	2090-2150	180-300	7	22	10	7.5	0.3	9.5	28	18	19	13	TTT167	x	10.95
HJK-9LH	818-853	753-778	40-100	10	27	13	6.7	0.2	8.0	37	24	27	20	TTT167	x	12.95
HJK-19LH	1850-1910	1780-1840	70-130	10	25	13	7.5	0.2	9.4	30	20	23	15	TTT167	x	12.95
HJK-21LH	1850-1910	2090-2150	180-300	10	25	13	7.2	0.3	8.9	28	20	19	13	TTT167	x	12.95
HJK-9MH	818-853	753-778	40-100	13	31	16	6.7	0.2	8.0	37	24	27	20	TTT167	x	14.95
HJK-19MH	1850-1910	1780-1840	70-130	13	30	16	7.4	0.2	8.9	30	20	23	15	TTT167	x	14.95
HJK-21MH	1850-1910	2090-2150	180-300	13	29	16	7.2	0.2	8.9	29	20	19	13	TTT167	x	14.95
HJK-3H*	140-180	160	0.5-20	16	37	19	8.0	0.1	9.2	44	35	44	30	TTT167	x	16.95
HUD-3H*	140-180	160	0.5-20	16	37	19	8.1	0.1	9.2	47	40	45	38	BK276	mx	15.95
HJK-9H	818-853	753-778	40-100	17	33	20	6.7	0.2	8.0	35	24	31	23	TTT167	x	16.95
HJK-19H	1850-1910	1780-1840	70-130	17	34	20	7.7	0.2	8.9	28	20	22	16	TTT167	x	16.95
HJK-21H	1850-1910	2090-2150	180-300	17	36	20	7.6	0.2	8.9	28	20	25	18	TTT167	x	16.95
HUD-19SH*	1819-1910	1710-1769	50-200	19	38	22	7.5	0.2	8.9	38	27	36	25	BK276	mx	19.95

*Patent pending

Outline drawings



Maximum Ratings

Operating Temperature -20°C to 85°C

Storage Temperature -55°C to 100°C

LO & RF Power 16 dBm for level 7,10,13

19 dBm for level 16

20 dBm for level 17

22 dBm for level 19

Pin Connections

PORT	x	mx
LO	2	1
RF	1	8
IF	3	5
GROUND	4,5,6	OTHERS
DEMO BOARD	TB-12	TB-107

Outline dimensions (inch mm)

case no.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	wt. grams.
TTT167	.375	.500	.23	.020	.075	.250	.425	.187	.050	.050	.070	.270	.540	.060	.095	.445	.208	.415	.8
BK276	.470	.803	—	.100	.250	.102	.100	.047	.065	.065	.490	—	—	—	—	—	—	—	3.0

REV. B
M75341
HJK-3H
HUD-3H
HJK-9H
HJK-9LH/-9MH
HJK-19H
HJK-19/-19LH/-19MH
HJK-21H
HJK-21/-21LH/-21MH
HUD-19SH
FET-MIXERS.p65
DJ/RS/TD/CP
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EDR-5182/1
EDR-5182/2
ED-8805/2
ED-8805/1
ED-8702A/1
ED-8702A/3
ED-8939/1
ED-8939/2
ED-8848

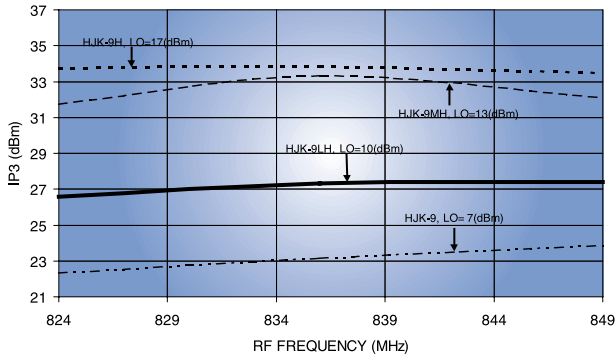


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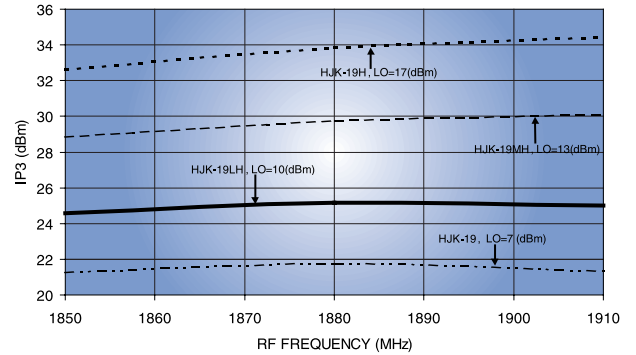
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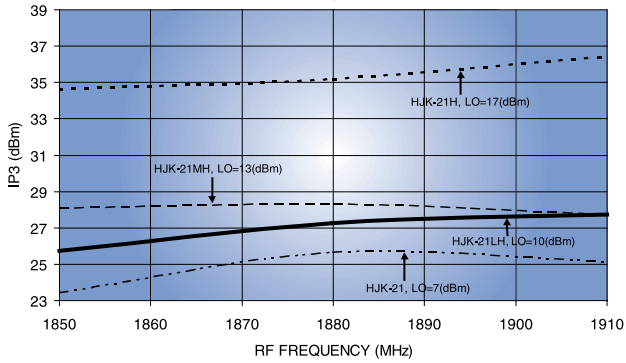
HJK-9/-9LH/-9MH/-9H
IP3 VS. FREQUENCY



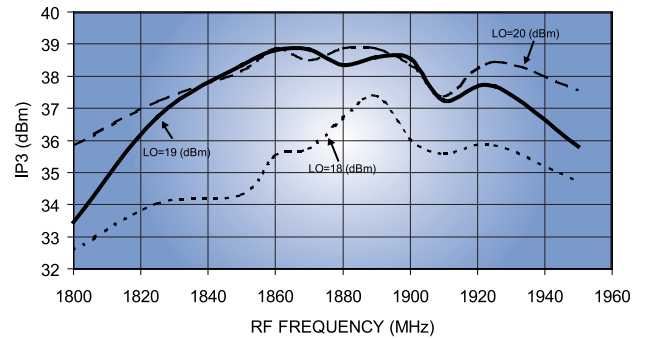
HJK-19/-19LH/-19MH/-19H
IP3 VS. FREQUENCY



HJK-21/-21LH/-21MH/-21H
IP3 VS. FREQUENCY



HUD-19SH
IP3 VS. FREQUENCY



electrical schematic

