

High IP3

Level 22 (LO Power +22 dBm) 100 to 3100 MHz

Maximum Ratings

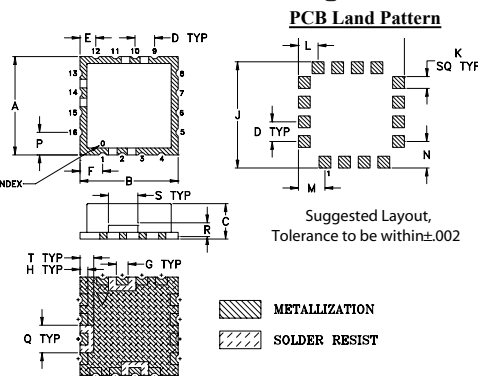
Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
LO Power	+25 dBm
RF Power	+23 dBm

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

LO	10
RF	2
IF	14
GROUND	1,3,4,5,6,7,8,9,11,12,13,15,16

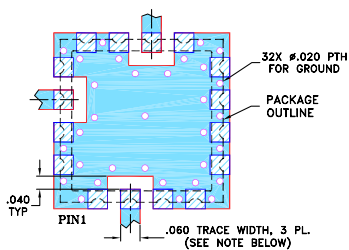
Outline Drawing



Outline Dimensions ($\frac{\text{inch}}$ $\frac{\text{mm}}$)

A	B	C	D	E	F	G	H	J	K
.500	.500	.180	.100	.080	.115	.060	.040	.540	.060
12.7	12.7	4.572	2.54	2.032	2.921	1.524	1.016	13.72	1.524
L	M	N	P	Q	R	S	T		wt.
.100	.135	.135	.115	.140	.070	.150	.070		grams
2.54	3.429	3.429	2.921	3.556	1.778	3.81	1.778		1.0

Demo Board MCL P/N: TB-433+
Suggested PCB Layout (PL-012)



NOTES: 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .030" $\pm$.002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC
 (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- very high IP3, 33 dBm typ.
- wideband, 100 to 3600 MHz
- excellent L-R isolation, 40 dB typ. and L-I isolation, 35 dB typ.
- high 1 dB compression, 20 dBm typ.
- shielded metal cover
- aqueous washable
- protected by US Patent 6,807,407

Applications

- cellular/PCS base stations
- ISM applications
- wideband communications
- defense communications
- military and avionics



CASE STYLE: CK605

PRICE: \$24.95 ea. QTY. (1-9)
\$17.95 ea. QTY. (100)

+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

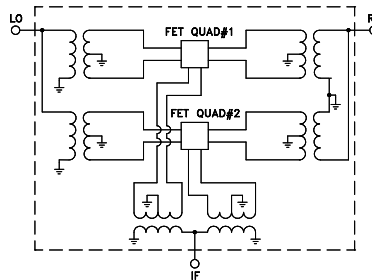
Electrical Specifications (T_{AMB}=25°C)

FREQUENCY (MHz)			CONVERSION LOSS (dB)			RF in at 1dB Compr (dBm)	IP3 (dBm)	LO-RF ISOLATION (dB)		LO-IF ISOLATION (dB)	
RF	LO	IF	Typ.	σ	Max.	Typ.	Typ.	Typ.	Min.	Typ.	Min.
100-3100	1800-3600	500-2500	7.5	0.1	9.9	+20	33	40	27	35	22

Typical Performance Data

Frequency (MHz)		Conversion Loss (dB)	Isolation L-R (dB)	Isolation L-I (dB)	VSWR RF Port (:1)	VSWR LO Port (:1)	IP3 (dBm)	IF Freq. (MHz)	VSWR IF (:1)
RF	LO	LO +22dBm	LO +22dBm	LO +22dBm	LO +22dBm	LO +22dBm	LO +22dBm		LO +22dBm
100.00	1800.10	7.08	60.41	42.30	1.77	5.20	30.09	500.10	1.74
250.00	2000.10	7.00	49.08	38.48	1.77	2.86	29.73	900.10	2.03
550.00	2100.10	6.68	46.71	36.34	1.61	2.24	32.92	1000.10	1.96
850.00	2200.10	6.67	45.08	34.66	1.82	1.90	31.57	1100.10	1.85
1000.00	2300.10	6.91	52.82	32.86	1.91	1.77	36.59	1200.10	1.72
1300.00	2400.10	7.38	45.55	34.75	1.93	1.91	30.61	1300.10	1.58
1600.00	2600.10	7.27	38.73	30.39	1.65	2.49	32.77	1400.10	1.41
1750.00	2700.10	7.21	39.21	28.31	1.40	2.83	34.63	1500.10	1.26
2050.00	2800.10	7.28	42.19	27.69	1.26	3.15	39.00	1700.10	1.06
2200.00	2900.10	7.38	45.74	28.57	1.30	3.38	35.84	1900.10	1.15
2350.00	3000.10	7.57	44.32	30.14	1.36	3.47	40.70	2000.10	1.20
2500.00	3200.10	7.74	45.55	33.05	1.51	3.01	36.11	2100.10	1.25
2800.00	3400.10	8.12	50.21	36.80	1.66	2.42	34.72	2300.10	1.29
3100.00	3600.10	8.88	56.43	40.41	2.09	2.09	32.36	2500.10	1.40

Electrical Schematic



For detailed performance specs
& shopping online see web site



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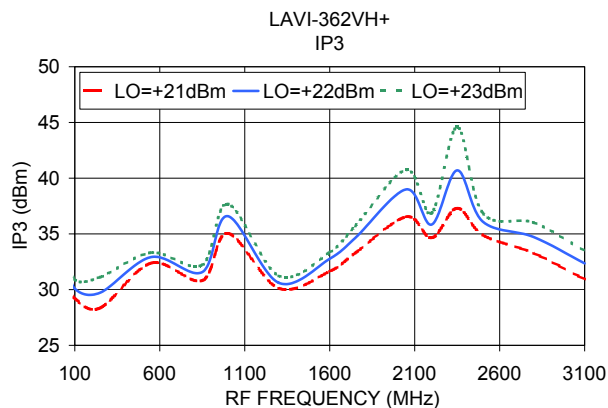
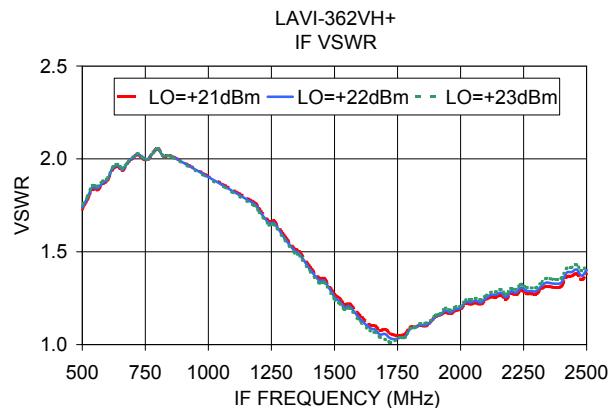
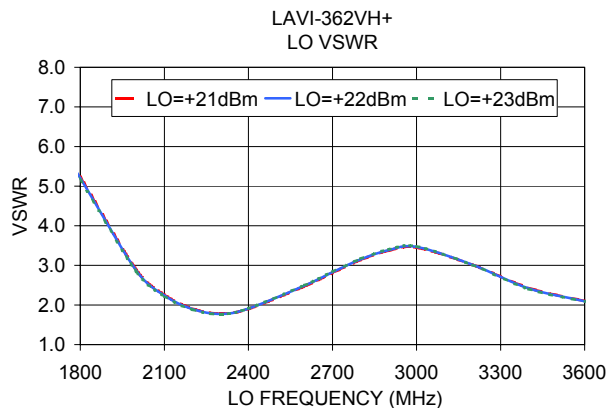
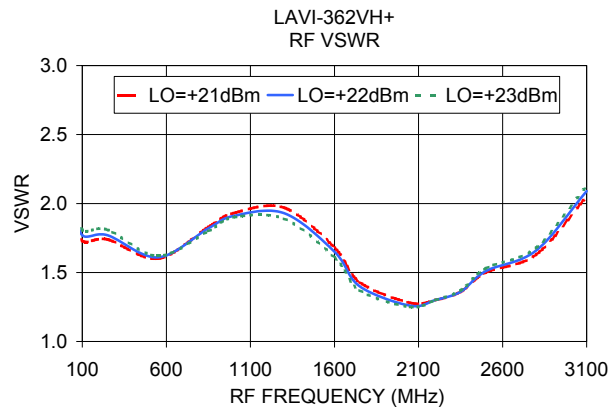
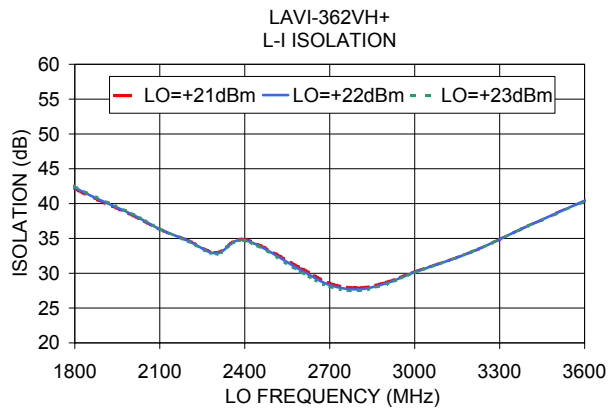
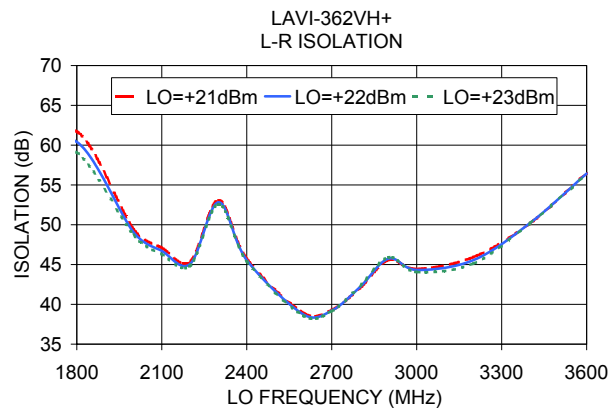
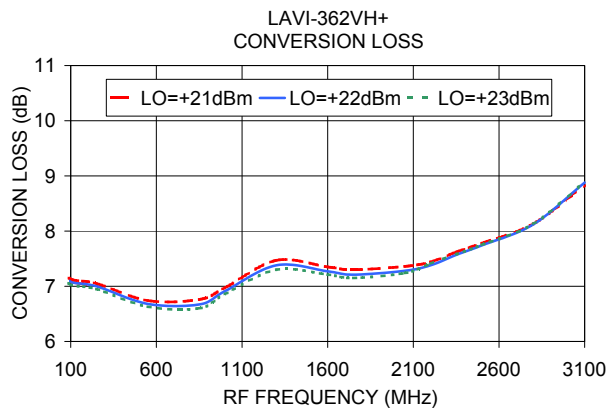
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Performance Charts

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For detailed performance specs
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