



50Ω 4Way 0°Divide Frequency: 300-3000MHZ.

Features

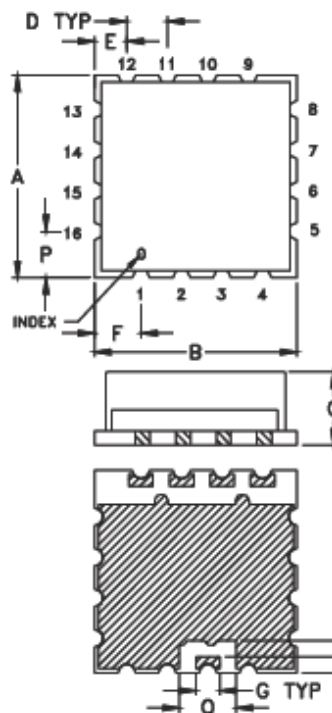
- wideband, 300 to 3000 MHz,
- useable from 100 to 3600 MHz
- low insertion loss, 1.6 dB typ.
- good isolation, 17 dB typ.
- good amplitude unbalance, 0.4 dB typ.

Applications

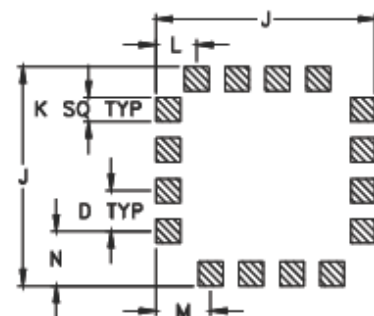
- communication systems
- CATV
- cellular, GPS, PCS
- VHF/UHF/receivers/transmitters



Outline Drawing



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.02

METALLIZATION

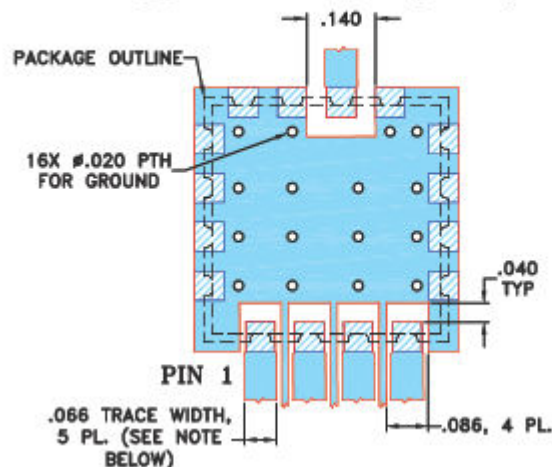
Outline Dimensions (Inch mm)

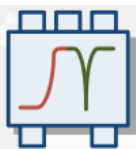
A	B	C	D	E	F	G	H	J
.500 12.70	.500 12.70	.180 4.57	.100 2.54	.080 2.03	.115 2.92	.060 1.52	.040 1.02	.540 13.72
K	L	M	N	P	Q	T	wt.	
.060 1.52	.100 2.54	.135 3.43	.135 3.43	.115 2.92	.140 3.56	.080 2.03	grams	1.0

electrical schematic



Demo Board MCL P/N: TB-652+ Suggested PCB Layout (PL-368)





Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	1W max.
Internal Dissipation	0.20W max.

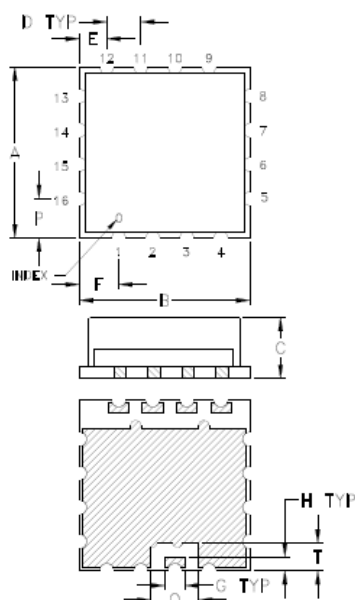
Pin Connections

SUM PORT	10
PORT 1	1
PORT 2	2
PORT 3	3
PORT 4	4
GROUND	ALL OTHER

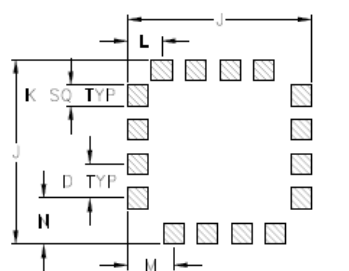
Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		300	—	3000	MHz
Insertion Loss Above 6.0 dB	300 - 2700 2700 - 3000	—	1.6 2.6	3.1 3.8	dB
Isolation	300 - 3000	12	17	—	dB
Phase Unbalance	300 - 2700 2700 - 3000	— —	7 12	15 20	Degree
Amplitude Unbalance	300 - 2700 2700 - 3000	—	0.4 0.7	0.9 1.2	dB
VSWR (Port S)	300 - 3000	—	2.1	—	:1
VSWR (Port 1-4)	300 - 3000	—	1.5	—	:1

Outline Dimensions



PCB Land Pattern



Suggested Layout,
Tolerance to be within ± 0.02

METALLIZATION

CASE #	A	B	C	D	E	F	G	H	J	K
CK1704	.500 (12.70)	.500 (12.70)	.180 (4.57)	.100 (2.54)	.080 (2.03)	.115 (2.92)	.060 (1.52)	.040 (1.02)	.540 (13.72)	.060 (1.52)

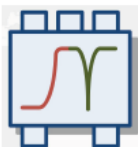
CASE #	L	M	N	P	Q	R	S	T	WT. GRAM
CK1704	.100 (2.54)	.135 (3.43)	.135 (3.43)	.115 (2.92)	.140 (3.56)	-	-	.080 (2.03)	1.0

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3Pl. $\pm .015$

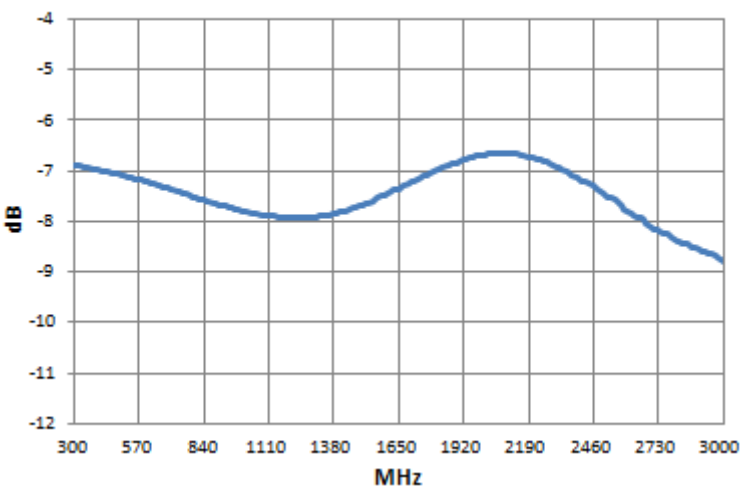
Tel : +86 0755-27881106

Fax : +86 0755-27597069

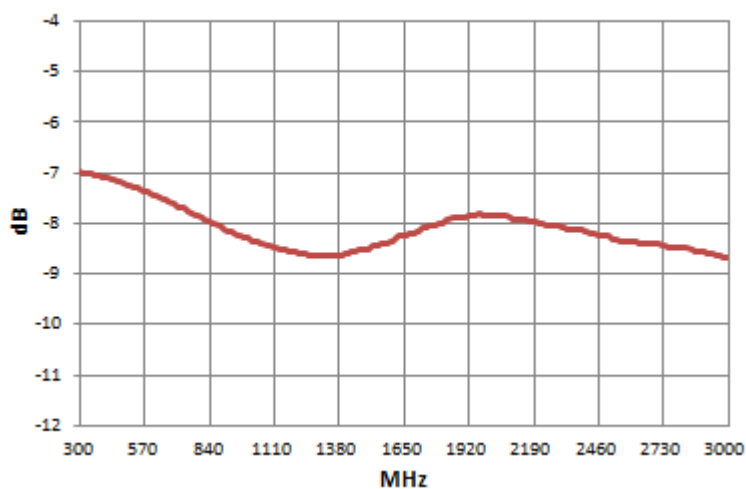
Add : 806 Building B7, Tianrui Industrial Park, Fuyong Street, Baoan District, Shenzhen



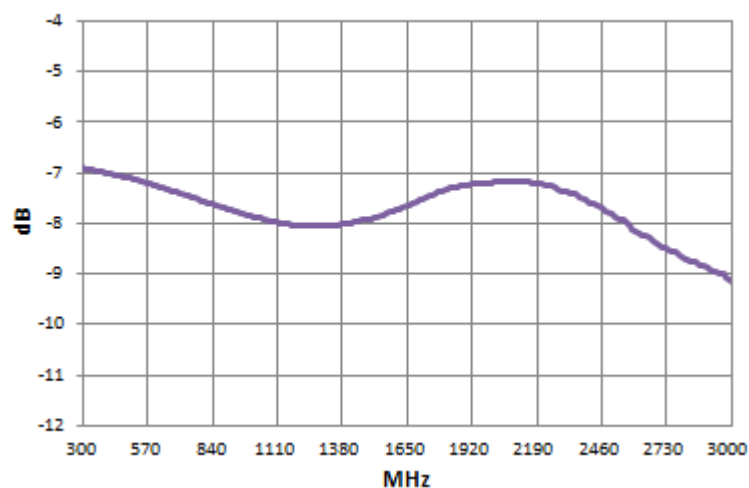
S-1



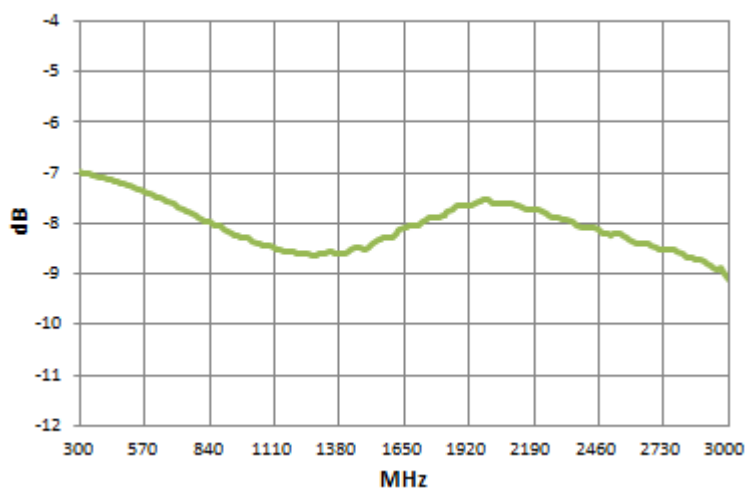
S-2



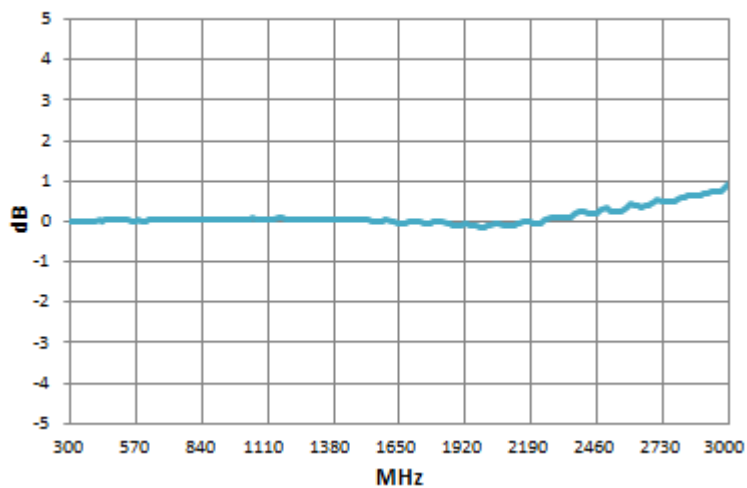
S-4



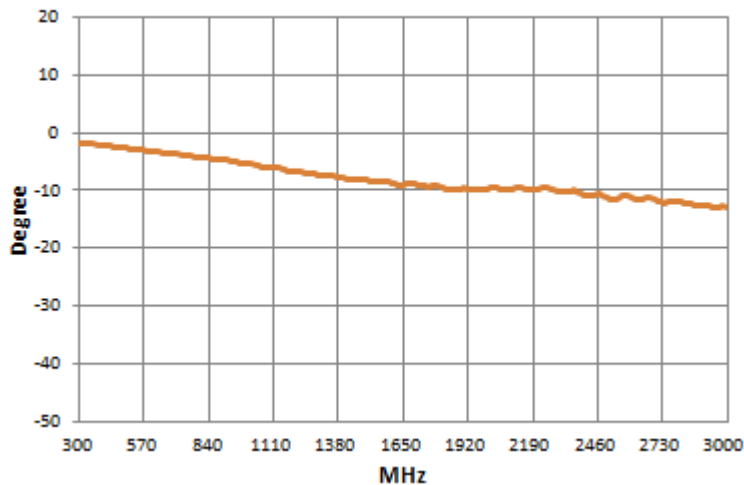
S-3

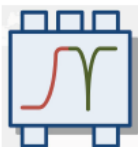


Amplitude

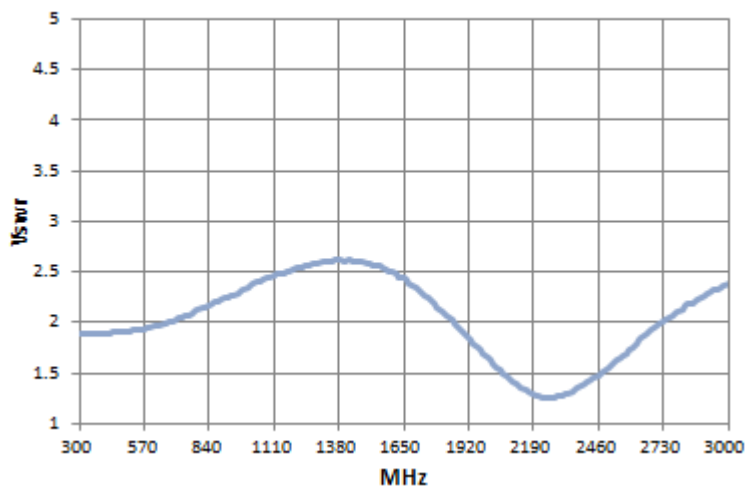


Phase

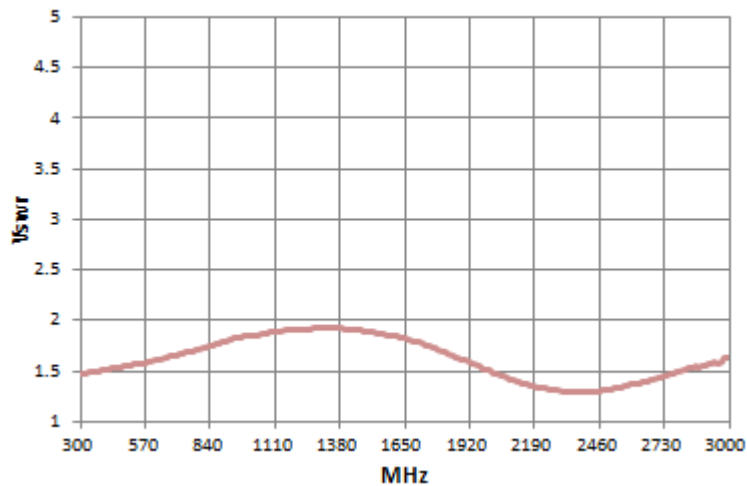




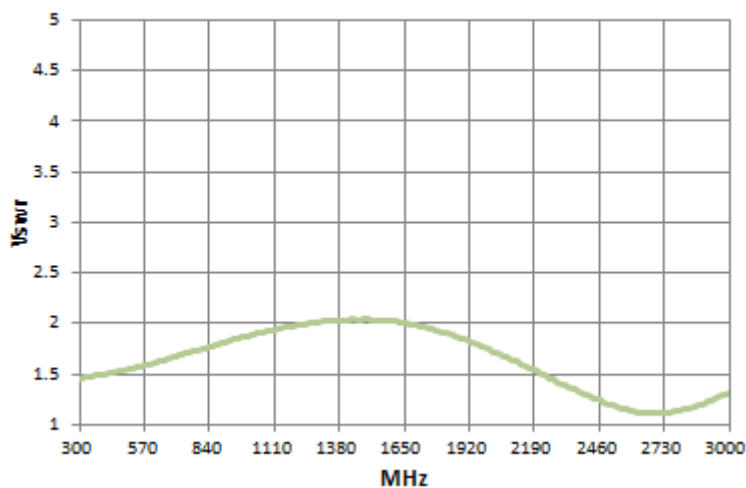
VSWR-S



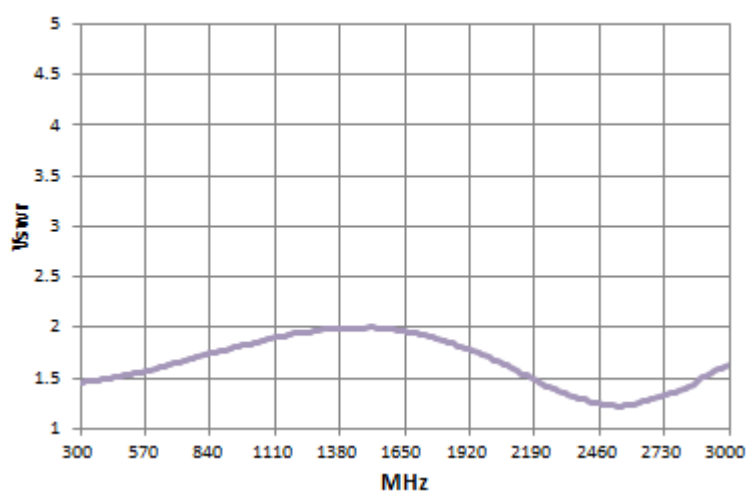
VSWR-1



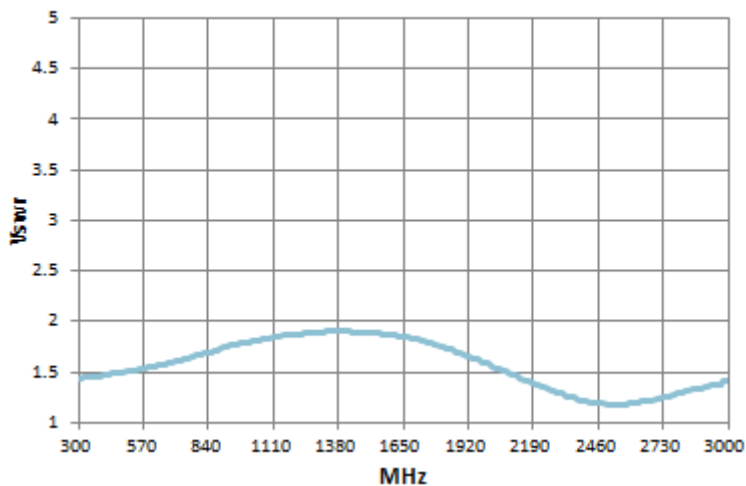
VSWR-2



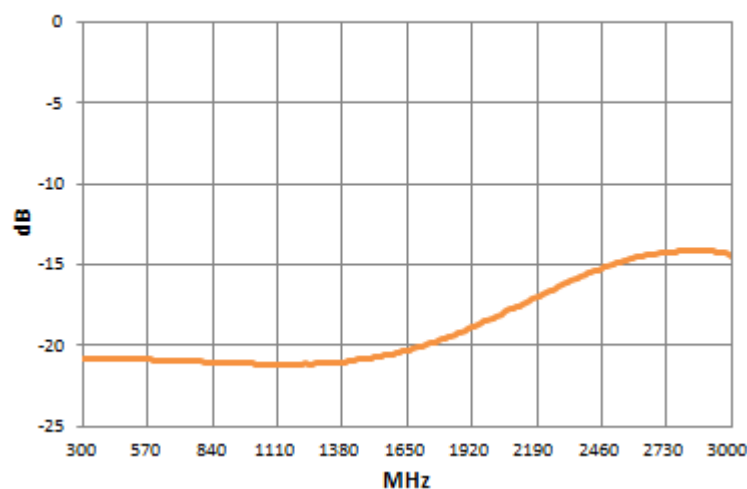
VSWR-3

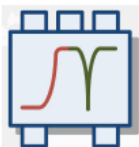


VSWR-4

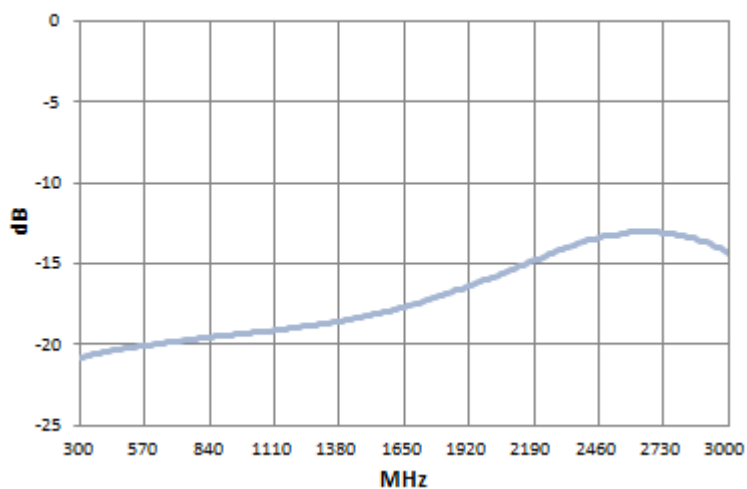


Isolation 1-2





Isolation 2-3



Isolation 2-4

