



Generic photo used for illustration purposes only

CASE STYLE: BK276

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Maximum Ratings

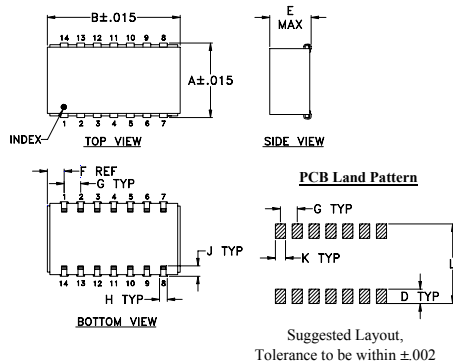
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Input Power	20 dBm max.
Control Voltage	28V

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

Pin Connections

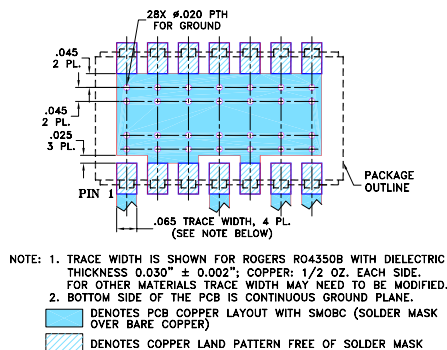
IN	1
OUT	7
BIAS	4,6^
GROUND	2,3,5,8,9,10,11,12,13,14

^ proper operation is achieved with pins 4 or 6 or both connected to BIAS.

Outline Drawing**Outline Dimensions (inch mm)**

A	B	C	D	E	F	G
.450	.803	--	.100	.250	.102	.100
11.43	20.40	--	2.54	6.35	2.59	2.54

H	J	K	L	wt
.047	.065	.065	.470	grams
1.19	1.65	1.65	11.94	3.0

**Demo Board MCL P/N: TB-122
Suggested PCB Layout (PL-030)****Features**

- low insertion loss, 2.0 dB typ.
- good VSWR, 1.5:1 typ.
- J-leads for excellent solderability and strain relief
- aqueous washable

Applications

- cellular
- PCS
- DCS

Phase Shifter Electrical Specifications

FREQUENCY (MHz)	PHASE RANGE (Degrees)	INSERTION LOSS (dB)	CONTROL VOLTAGE (V)	CONTROL BANDWIDTH (kHz)	VSWR (:1)
	Min.	Typ. Max.		Typ.	Typ. Max.
1700-2000	180	2.0 3.5	0-15	DC-50	1.5 2.9

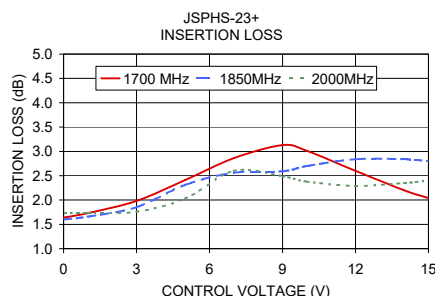
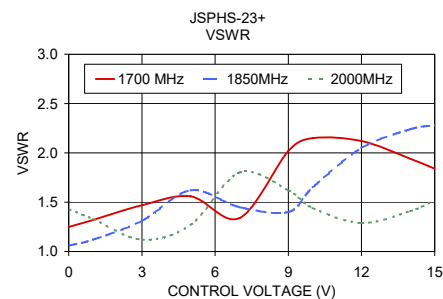
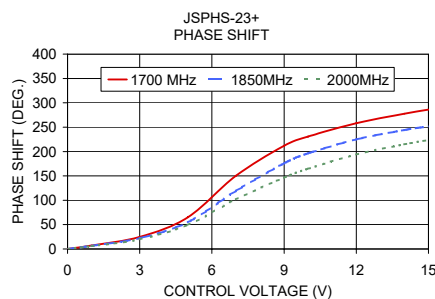
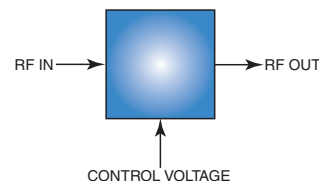
Maximum operating power, 0 dBm

DC input resistance at Control port: 2000 ohms typ.

Typical Performance Data

Control Voltage (V)	Phase Shift* (Degrees)			VSWR (:1)			Insertion Loss (dB)		
	1700 MHz	1850 MHz	2000 MHz	1700 MHz	1850 MHz	2000 MHz	1700 MHz	1850 MHz	2000 MHz
0.0	0.02	0.01	0.02	1.25	1.06	1.43	1.64	1.60	1.74
1.0	7.14	6.46	5.81	1.32	1.12	1.33	1.73	1.66	1.73
3.0	24.81	22.12	19.98	1.47	1.31	1.12	1.98	1.85	1.76
5.0	65.00	55.13	49.59	1.56	1.62	1.27	2.41	2.31	2.03
7.0	150.40	119.13	101.78	1.34	1.45	1.80	2.86	2.56	2.60
9.0	211.72	175.86	146.54	2.02	1.40	1.62	3.13	2.59	2.49
10.0	230.78	196.14	164.75	2.15	1.65	1.44	3.01	2.70	2.38
12.0	258.19	224.89	193.95	2.12	2.05	1.29	2.60	2.84	2.29
14.0	277.70	243.96	214.97	1.94	2.24	1.41	2.20	2.84	2.35
15.0	285.95	251.62	223.46	1.84	2.28	1.52	2.04	2.80	2.40

* Normalized at control voltage = 0V

**electrical schematic****Notes**

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