

Surface Mount

Phase Shifter

50Ω 180° Voltage Variable 2150 to 2484 MHz

JSPHS-2484+



CASE STYLE: BK276
PRICE: \$32.95 ea. QTY (1-9)

+ 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.

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

^ pins must be connected together externally

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

- mobile
- radio location

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.
2150-2484	180	2.0 5.6	0-15	DC-50	1.5 2.0

Maximum operating power, 0 dBm

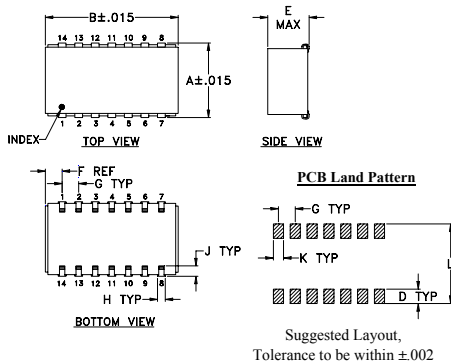
DC input resistance at Control port: 2000 ohms typ.

Typical Performance Data

Control Voltage (V)	Phase Shift* (Degrees)			VSWR (:1)			Insertion Loss (dB)		
	2150 MHz	2300 MHz	2484 MHz	2150 MHz	2300 MHz	2484 MHz	2150 MHz	2300 MHz	2484 MHz
0.0	0.01	0.00	0.00	1.20	1.33	1.46	1.50	1.60	1.87
1.0	5.06	4.69	4.22	1.17	1.31	1.45	1.51	1.60	1.85
2.0	10.50	9.70	8.68	1.15	1.29	1.45	1.53	1.60	1.83
3.0	17.42	16.05	14.29	1.12	1.26	1.44	1.56	1.60	1.82
4.0	27.60	25.25	22.27	1.11	1.21	1.42	1.65	1.63	1.80
5.0	42.79	38.72	33.71	1.17	1.15	1.38	1.83	1.70	1.80
6.0	63.72	56.65	48.52	1.28	1.11	1.31	2.17	1.87	1.84
7.0	89.57	77.62	65.24	1.41	1.18	1.21	2.71	2.16	1.94
8.0	119.07	99.77	82.32	1.46	1.29	1.12	3.35	2.55	2.11
9.0	151.83	122.45	99.06	1.40	1.38	1.07	3.97	2.98	2.34
10.0	187.02	145.74	115.49	1.29	1.42	1.12	4.37	3.39	2.63
11.0	222.21	169.98	135.24	1.27	1.41	1.20	4.44	3.74	2.94
12.0	254.14	195.10	148.56	1.37	1.37	1.28	4.17	3.96	3.27
13.0	280.85	220.25	165.52	1.47	1.32	1.39	3.74	4.02	3.57
14.0	302.85	244.62	183.15	1.53	1.32	1.39	3.27	3.92	3.83
15.0	320.70	266.91	201.15	1.53	1.36	1.41	2.86	3.70	4.02

* Normalized at control voltage = 0V

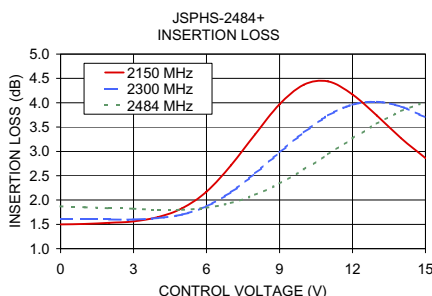
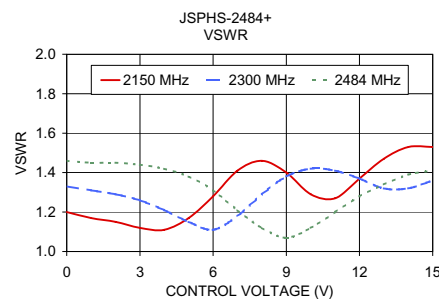
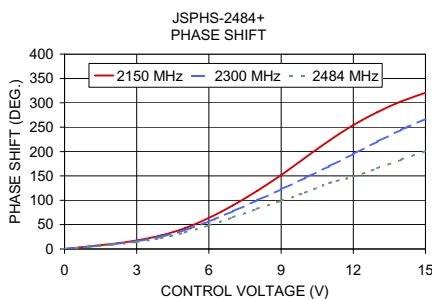
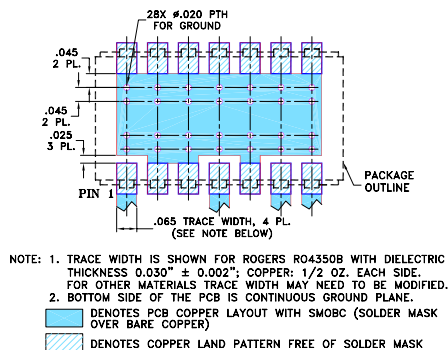
Outline Drawing



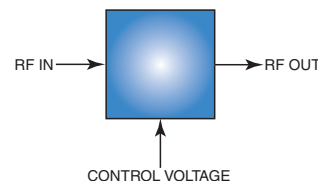
Outline Dimensions (inch mm)

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)



electrical schematic



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