

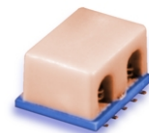
# Surface Mount Power Splitter/Combiner

**NEW!**

**SCA-3-11**

3 Way-0° 50Ω

100 to 940 MHz



**BLUE CELL™**

CASE STYLE: DZ943  
PRICE: \$5.95 ea. QTY (10-49)

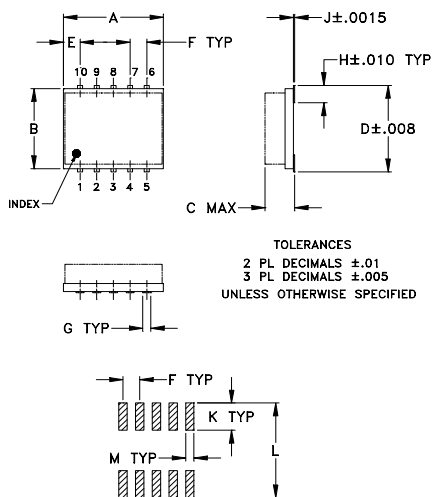
## Maximum Ratings

Operating Temperature	-45°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5W max.
Internal Dissipation	0.25W max.

## Pin Connections

SUM PORT	3
PORT 1	6
PORT 2	8
PORT 3	10
GROUND	1,2,4,5,7,9

## Outline Drawing

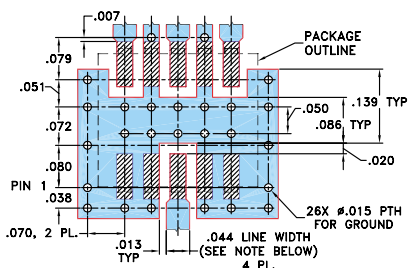


SUGGESTED LAYOUT FOR PCB LAND PATTERN

## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.30	.250	.190	.274	.050	.050	.012
7.62	6.35	4.83	6.96	1.27	1.27	0.30
H	J	K	L	M	wt	
.057	.004	.085	.296	.030	grams	
1.45	0.10	2.16	7.52	0.76	0.5	

Demo Board MCL P/N: TB-246  
Suggested PCB Layout (PL-144)



## Features

- wideband, 100-940 MHz
- good input port matching VSWR, 1.10 typ.
- small surface mount package
- patent pending

## Applications

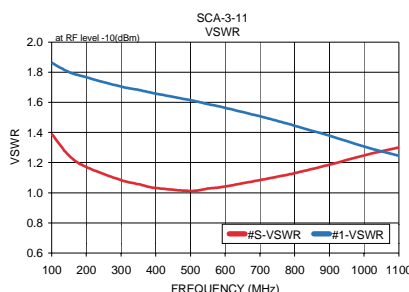
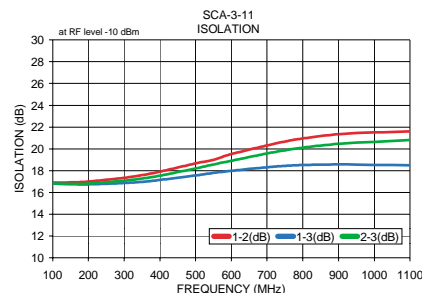
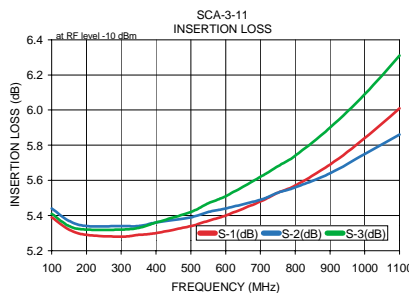
- cellular
- ISM
- PCS
- land mobile

## Splitter Electrical Specifications

FREQ. RANGE (MHz)	ISOLATION (dB)		INSERTION LOSS (dB) ABOVE 4.8 dB		PHASE UNBALANCE (Degrees) Max.	AMPLITUDE UNBALANCE (dB) Max.
	Typ.	Min.	Typ.	Max.		
f <sub>L</sub> -f <sub>H</sub>						
100-940	20	14	0.7	1.5	7	0.7

## Typical Performance Data

Freq. (MHz)	Insertion Loss (dB)			Amp. Unbal. (dB)	Isolation (dB)			Phase Unbal. (deg.)	VSWR S	VSWR 1	VSWR 2	VSWR 3
	S-1	S-2	S-3		1-2	1-3	2-3					
100.00	5.39	5.44	5.41	0.05	16.91	16.83	16.81	0.42	1.39	1.86	1.91	1.86
150.00	5.32	5.37	5.34	0.05	16.92	16.76	16.79	0.60	1.25	1.80	1.85	1.80
200.00	5.29	5.34	5.32	0.05	17.00	16.74	16.82	0.72	1.17	1.77	1.81	1.77
300.00	5.28	5.34	5.32	0.06	17.34	16.86	17.08	1.11	1.08	1.70	1.76	1.70
350.00	5.29	5.34	5.33	0.06	17.59	16.97	17.28	1.31	1.06	1.68	1.74	1.68
400.00	5.30	5.36	5.36	0.06	17.90	17.14	17.54	1.52	1.03	1.66	1.72	1.65
500.00	5.34	5.39	5.42	0.08	18.66	17.56	18.20	1.98	1.01	1.61	1.68	1.61
550.00	5.37	5.42	5.47	0.09	19.00	17.79	18.57	2.10	1.03	1.59	1.66	1.59
600.00	5.40	5.44	5.51	0.11	19.52	17.98	18.91	2.49	1.04	1.56	1.64	1.56
700.00	5.48	5.49	5.62	0.13	20.31	18.31	19.57	2.87	1.08	1.51	1.59	1.49
750.00	5.53	5.53	5.68	0.15	20.67	18.43	19.87	2.99	1.11	1.48	1.56	1.46
800.00	5.57	5.56	5.74	0.18	20.96	18.52	20.11	3.20	1.13	1.44	1.54	1.44
900.00	5.69	5.64	5.90	0.26	21.35	18.57	20.46	3.57	1.19	1.38	1.47	1.36
1000.00	5.84	5.75	6.09	0.34	21.50	18.53	20.65	3.80	1.25	1.31	1.40	1.28
1100.00	6.01	5.86	6.31	0.45	21.60	18.48	20.80	4.08	1.30	1.24	1.33	1.22



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