Ceramic

Low Pass Filter

NEW!

LFTC-850

DC to 850 MHz

BLUE CELL™

CASE STYLE: FR933
PRICE: $3.75 ea. QTY (10-49)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C

Pin Connections

RF IN	2**
RF OUT	5**
GROUND	1,3,4,6

** RF IN & RF OUT can be interchanged

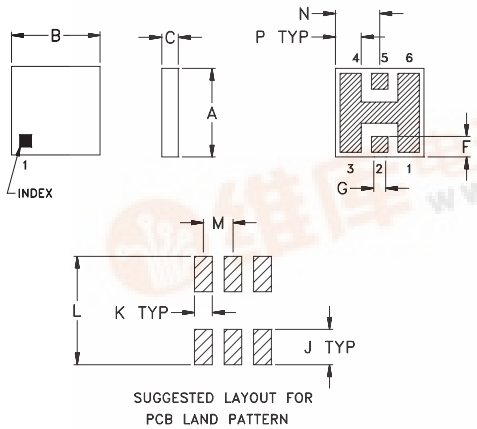
Features

- miniature size, 0.15"X0.15"X.028"
- low profile, .028" height
- high power handling, 16W

Applications

- harmonic rejection
- internal rejection
- receivers & transmitters

Outline Drawing



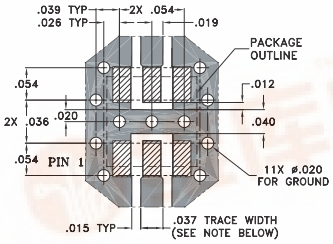
TOLERANCE UNLESS OTHERWISE STATED
2 PLACES DECIMAL: ±.01
3 PLACES DECIMAL: ±.005

Outline Dimensions (inch / mm)

A	B	C	D	E	F	G
.150	.150	.028	—	—	.035	.028
3.81	3.81	0.71	—	—	0.89	0.71

H	J	K	L	M	N	P	wt.
—	.060	.030	.184	.050	.075	.044	grams
—	1.52	0.76	4.67	1.27	1.91	1.12	0.15

Demo Board MCL P/N: TB-233
Suggested PCB Layout (PL-112)



NOTE: TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

DENOTES PCB COPPER LAYOUT

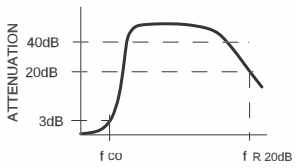
DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

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

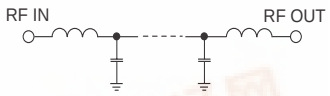
MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Typ.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (> 20 dB)	STOP BAND (MHz) (loss> 40 dB)	STOP BAND (MHz) fr20dB Typ.	VSWR (:1) Passband Typ.	POWER INPUT* (W)	MARKING	NO. OF SECTIONS
LFTC-850	DC-850	1078	1500	2000-3500	5500	1.2	16	LF3	7

* Derate linearly to 7W at 100°C ambient

typical frequency response



schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.09	1.02
400.00	0.42	1.18
850.00	0.90	1.39
1078.00	2.87	2.87
1500.00	25.19	38.22
2000.00	45.14	59.79
3500.00	44.71	63.65
5000.00	33.44	68.63
7000.00	23.62	10.54
9000.00	23.95	18.52