LTCC 低通滤波器 (Low Pass Filter)

HT-LFCN-3000+

Features

- · Low insertion loss.
- · Good rejection.
- · LTCC Construction.
- · temperature stable.
- · Small size.

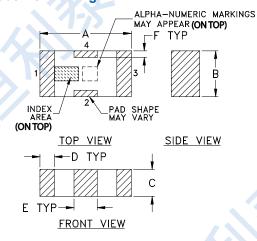
Applications

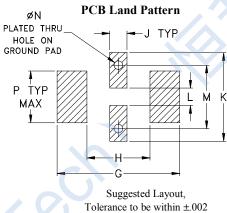
- · Harmonic rejection.
- VHF/UHF transmitters/receivers.
- · Lab use.

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



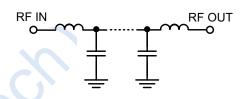


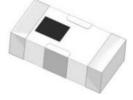
Outline Dimensions: inch

mm							
Α	В	С	D	Е	F	G	
.126	.063	.037	.020	.032	.009	.169	
3.20	1.60	0.94	0.51	0.81	0.23	4.29	
Н	J	K	L	М	N	Р	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Tel: +86-28-85589664

Functional Schematic





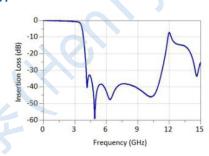
 50Ω DC to 3000MHz

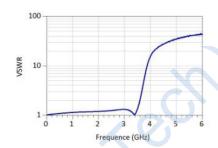
Electrical Specifications(1) at 25°C

Parameter		Frequency (MHz)	Min.	Тур.	Мах.	Unit	
	Freq. Cut-Off	3620	_	3.0	_	dB	
Pass Band	Insertion Loss	DC-3000	_	1.1	1.3	dB	
	VSWR	DC-3000	-	1.2	1.5	: 1	
	Rejection Loss	4200-6000	25	30	=	dB	
Stop Band		8000	25	30	_		
	VSWR	4200-8000	-	20	_	: 1	

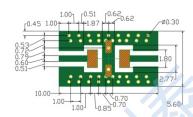
^{1.}In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25°C





Suggested PCB Layout



DEFIELD.

THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER) DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	10W max at 25°C

^{*}Permanent damage may occur if any of these limits are