



Low Pass Filter

Features

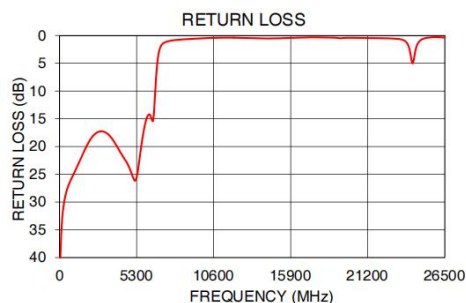
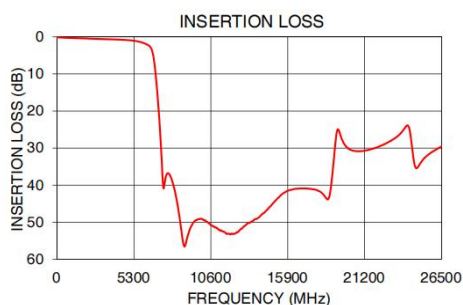
- Low loss, 1.5 dB typical
- Temperature stable
- LTCC construction.

Applications

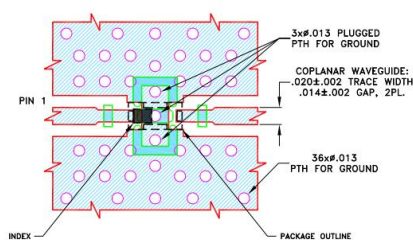
- Military radios
- 5G Sub 6 GHz
- Point-Point communication.

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-5500	-	1.5	2.0	dB
	Freq.Cut-Off	6320	-	3.0	-	dB
	Return Loss	DC-5500	-	11	-	dB
Stop Band	Rejection Loss	7500-8100	20	32	-	dB
		8100-11500	30	40	-	dB
		11500-17000	28	36	-	dB
		17000-26500	-	20	-	dB

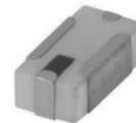


Suggested PCB Layout



- NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R04835 Lp Pre) WITH DIELECTRIC THICKNESS .0107±.0010. COPPER: 1/2 Oz. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
■ DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

JY-LFCW-5500+



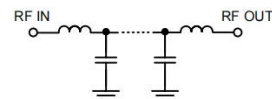
50Ω DC to 5.5 GHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	2.5W at 25°C

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

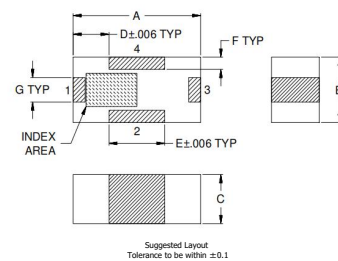
Functional Schematic



Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



Outline Dimensions: Unit (mm)

A	1.60	B	0.80	C	0.60
D	0.45	E	0.70	F	0.15
G	0.30				