P.O. Box 630 100 Douglas Ave. Yankton, SD 57078 USA
Phone: 800-762-8800 or 605-665-9321 Fax: 605-665-1709
Website: www.mtronpti.com

Specification for an LC Filter
MtronPTI P/N: LF9211

I. GENERAL & ELECTRICAL REQUIREMENTS:

1. Center Frequency, F_{ON}: 208.16MHz
2. PASSBAND @ 3dB: F_{ON} ±25.0MHz minimum
3. INSERTION LOSS (at peak of transmission): 2.5dB maximum
4. RETURN LOSS (F_{ON} ±25.0MHz): 15.0dB minimum
5. REJECTION (minimum)
   60dB: F_{ON} ±43.0MHz maximum
6. DIFFERENTIAL DELAY (over F_{ON} ± 20MHz): 18ηsec maximum
7. Z_{IN}/Z_{OUT}: 50Ω nominal

II. ENIVIRONMENTAL & PHYSICAL REQUIREMENTS:

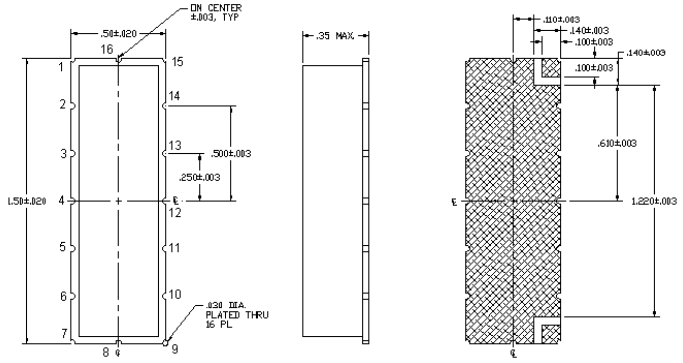
1. TEMPERATURE RANGE
   Operating (full specification compliance): -55°C to +85°C
   Storage: -55°C to +105°C
2. PACKAGE: SMD (See Figure 1)

Note 1: Materials

a. The upper housing is silver plated brass
b. The base is Rogers 4350 dielectric or equivalent
c. Sn10Pb88Ag02 solder will be utilized throughout the construction of this device
d. No pure tin components are utilized
e. The SMD pad finish is ENIG per IPC-4552

Note 2: Seal & Processes

a. The device is solder sealed
b. The device is compatible with automated assembly processes
- Automated pick & place
- Reflow soldering (see reflow profile Figure 3)
- Post reflow aqueous and non-aqueous wash



PIN #	DESCRIPTION
1	RF INPUT
7	RF OUTPUT
2,3,4,5,6,8 9,10,11,12, 13,14,15,16	GROUND

Figure 1: Package Outline Drawing

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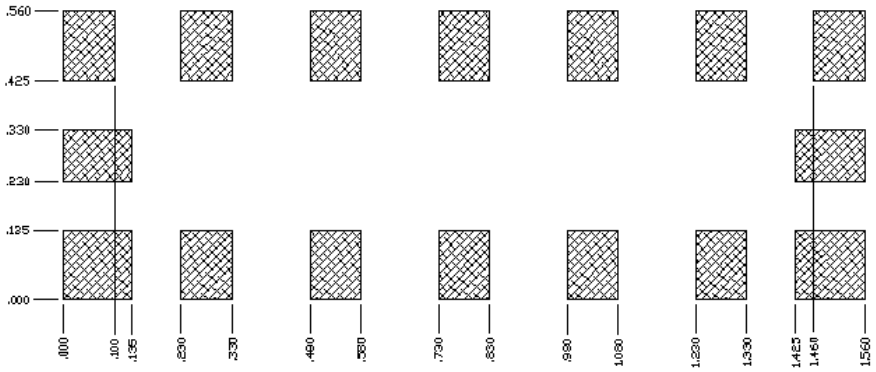

Figure 2: Recommended PAD layout

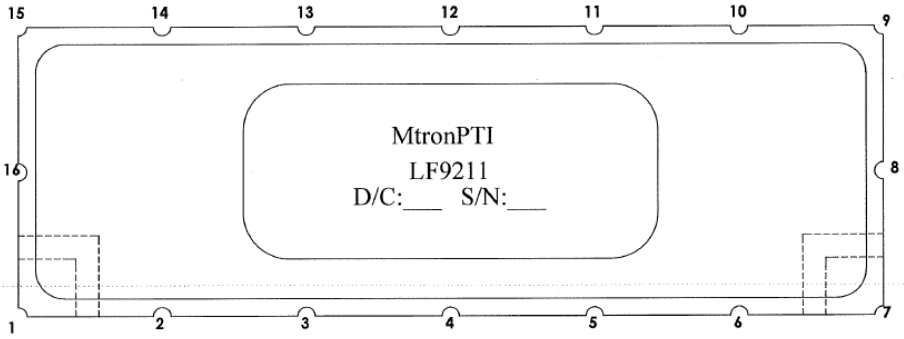

Figure 3: Part marking

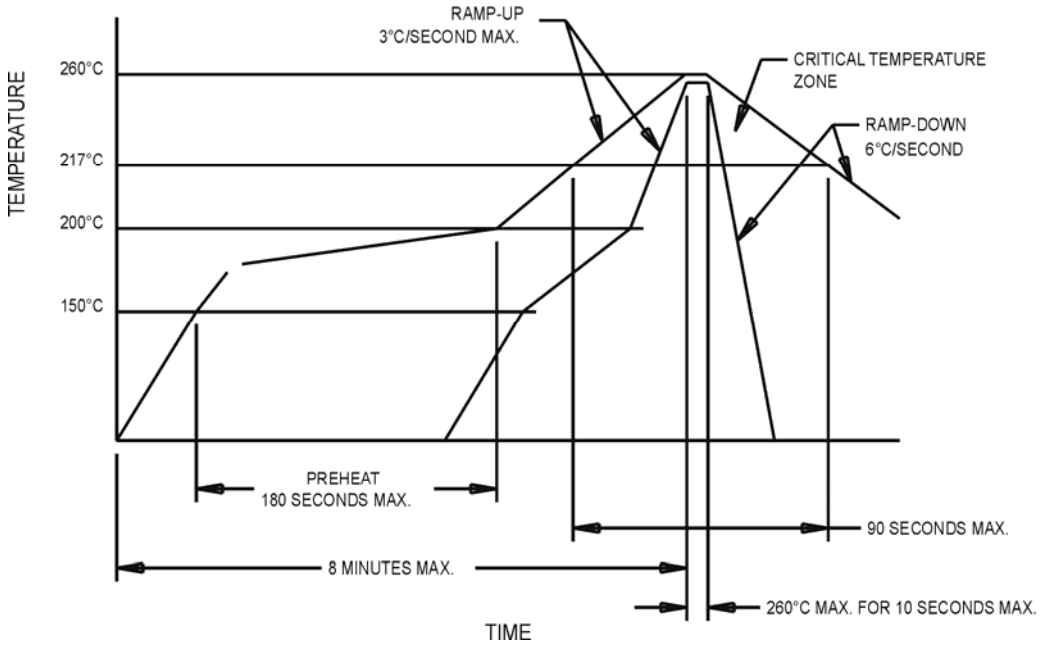

Figure 4: Recommended Reflow Profile

III. Datasheet Revision Table

Date	Rev	Author	Comment
04-09-20	F	BRR	Solder type corrected from Sn96 to Sn10, outline revised, center frequency added.
03-30-20	E	BRR	SMD Pad finish updated
04-12-19	D	BRR	Part marking outline added
04-01-15	C	DPD	Differential delay updated
12-01-10	B	BM	Solder profile added
-	A	BM	Preliminary Release