

Specification for a LC Filter Diplexer Filter
 MtronPTI P/N: LF9422

I. General & Electrical Requirements:

1. Port 1 Filter
 - Center Frequency (F_{ON}): 1780MHz
 - Passband: $F_{ON} \pm 70\text{MHz}$ (1710MHz to 1850MHz) minimum
 - Insertion Loss (in the Passband): 1.0dB nominal, 1.25dB maximum
 - Return Loss (in the Passband): 15.0dB minimum
2. Port 2 Filter
 - Center Frequency (F_{ON}): 2350MHz
 - Passband: $F_{ON} \pm 150\text{MHz}$ (2200MHz to 2500MHz) minimum
 - Insertion Loss (in the Passband): 1.0dB nominal, 1.25dB maximum
 - Return Loss (in the Passband): 15.0dB minimum
3. Common
 - Port 1 to Port 2 Isolation: 15dB minimum
 - Power Handling: $\leq 5\text{-watts CW}$
 - Z_{IN}/Z_{OUT} (all ports): 50 Ω nominal

II. Environmental & Physical Requirements:

1. Environmental
 - Temperature
 - Operating (OTR): -40°C to +60°C
 - Storage (STR): -55°C to +95°C
2. Package:
 - Size: 1.000" (L) x 1.000" (W) x 0.200" (H, Max.)
 - Type: SMD (production)

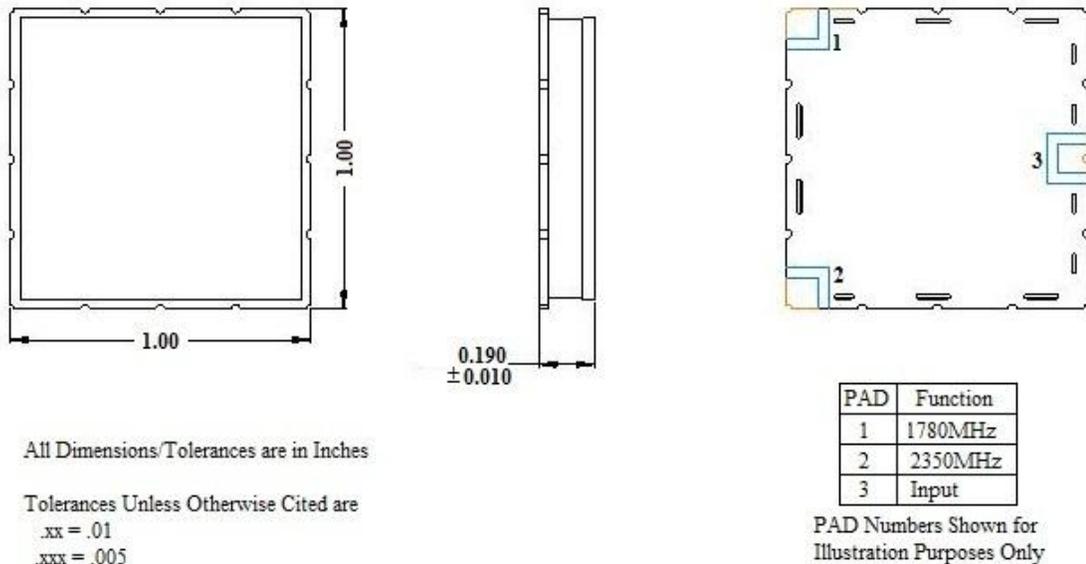
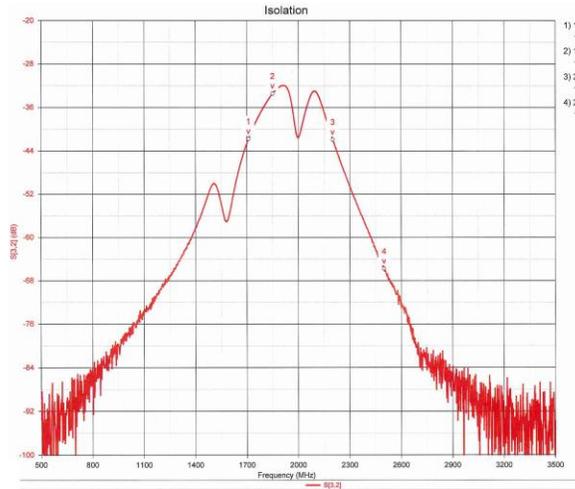
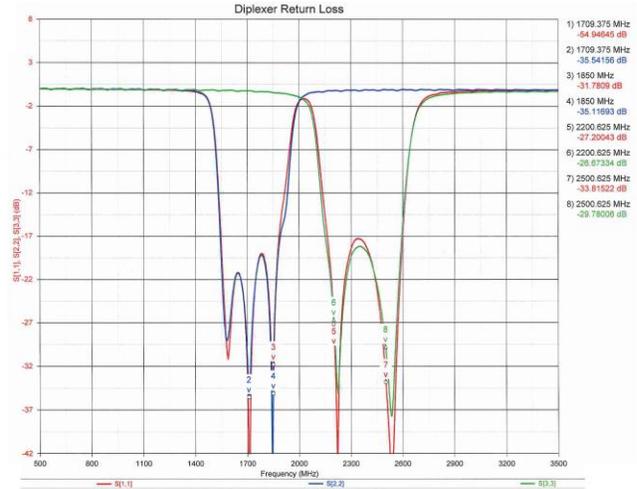
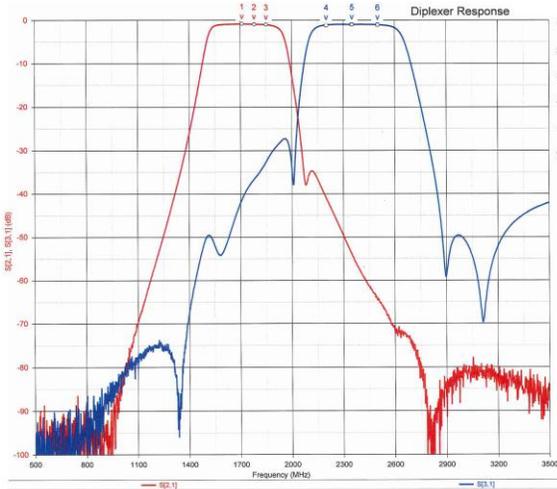


Figure 1: Production Model SMD Outline Drawing (TBD)

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III. Engineering Model Plot(s):



IV. Data Sheet Revision Table:

Date	Rev.	Author	Details of Revision
03/20/13	2	BRM	Updated Outline Drawing to reflect correct dimensioning for tolerancing.
03/19/13	1	BRM	Original Product Release, Updated Insertion Loss and Operating Temperature Range (OTR) specification. Added SMD Outline Drawing.
02/08/13	0	BRM	Original Draft.