







# RF DIFFERENTIAL SPLITTER

## For RF Applications in Coaxial Cable Products and Distribution Equipment



-  Differential inputs and differential outputs
-  Optimized for use with differential amplifiers
-  Operating bandwidth: 96MHz to 864MHz
-  Ideal for set top box applications
-  Good flatness
-  Good Isolation

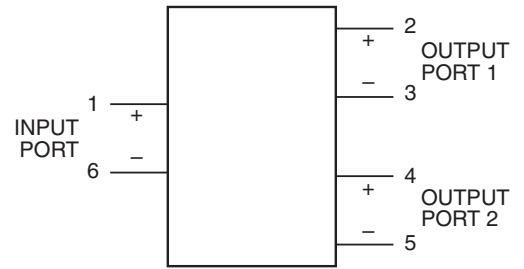
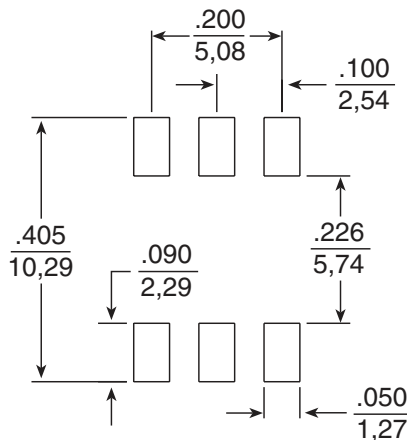
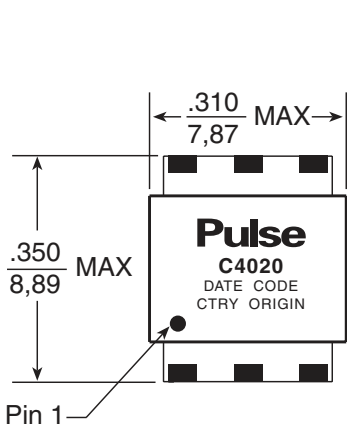
### Electrical Specifications @ 25°C

Standard <sup>1</sup> Part Number	RoHS-6 <sup>1</sup> Compliant Part No.	Frequency <sup>2</sup> (MHz)	Z (Ω)	Insertion Loss (Above 3dB)		Flatness 96-864MHz (dB TYP/MAX)	Isolation 96-864MHz (dB TYP/MIN)	Return Loss 96-864MHz (dB MIN)
				96-400MHz (dB TYP/MAX)	400-864MHz (dB TYP/MAX)			
C4020	C4020NL	96-864	75	1.1/1.8	1.9/3.0	1.0/1.5	25/20	9

Notes: 1. Optional Tape & Reel packaging available by adding a "T" suffix to the part number (ex: C4020T). Specifications apply to both Port 1 and Port 2.  
 2. Additional operating frequencies are available. Please contact Pulse Applications Engineering for further details.

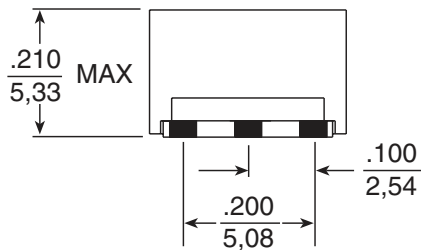
### Mechanical

#### C4020/C4020NL



BLOCK DIAGRAM

#### SUGGESTED PAD LAYOUT



Weight . . . . . 0.40 grams

Tape & Reel . . . . . .850/reel

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are  $\pm \frac{.005}{0,13}$

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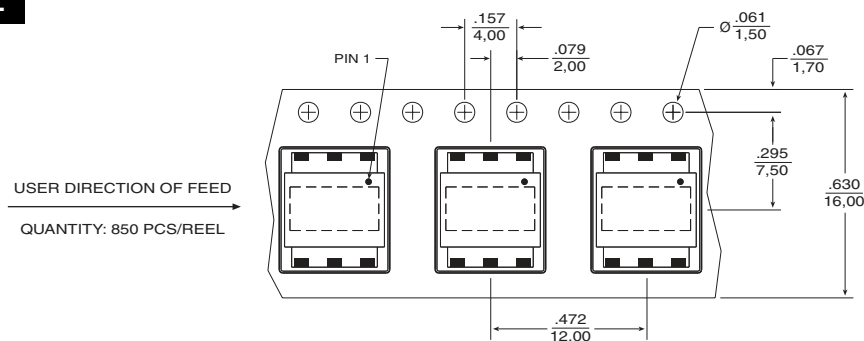


### Application Notes

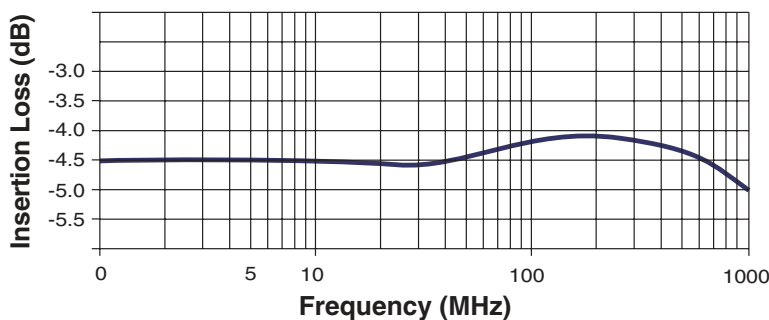
A. Materials used in the products are UL94-V0 recognized. Products meet requirements of IEC 695-2-2 (Needle Flame Test).

### Tape and Reel Specifications

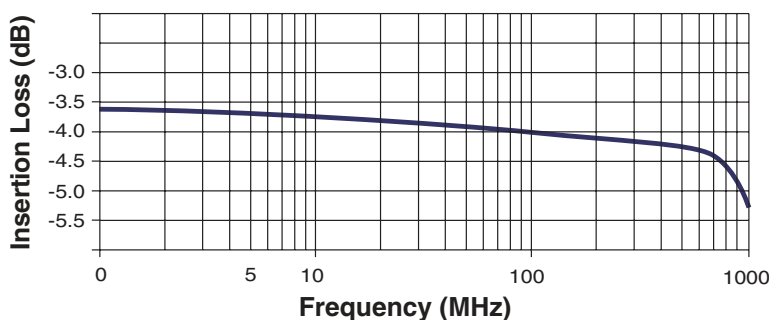
#### C4020/C4020NL



#### C4020 / C4020NL - Port 1 Insertion Loss



#### C4020 / C4020NL - Port 2 Insertion Loss



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