

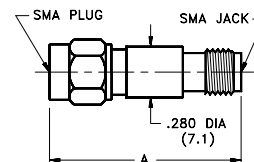
| DC - 8.0 GHz                                                                                                        | 292 Series         | Model Numbers      |
|---------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                                                         | Female/Female      | Male/Male          |
| ATT-0292-XX-SMA-02                                                                                                  | ATT-292F-XX-SMA-02 | ATT-292M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br>(.5 dB increments available)<br><b>HIGH PERFORMANCE</b> |                    |                    |

| DC - 2.0 GHz                                                                                                        | 294 Series         | Model Numbers      |
|---------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                                                         | Female/Female      | Male/Male          |
| ATT-0294-XX-SMA-02                                                                                                  | ATT-294F-XX-SMA-02 | ATT-294M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br>(.5 dB increments available)<br><b>HIGH PERFORMANCE</b> |                    |                    |



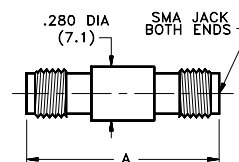
### LOW VSWR - Type II High Performance Attenuators

| DC - 18.0 GHz                                                                                                                     | 451 Series         | Model Numbers      |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                                                                       | Female/Female      | Male/Male          |
| ATT-0451-XX-SMA-02                                                                                                                | ATT-451F-XX-SMA-02 | ATT-451M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br><b>LOW VSWR</b> - see improved performance specifications on page 10. |                    |                    |



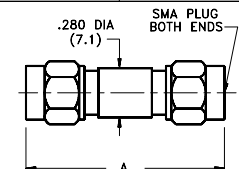
| Attenuation Value | Length A |
|-------------------|----------|
| 1-12 dB           | 0.86     |
| 13-30 dB          | 1.02     |

| DC - 12.4 GHz                                                                                                                     | 452 Series         | Model Numbers      |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                                                                       | Female/Female      | Male/Male          |
| ATT-0452-XX-SMA-02                                                                                                                | ATT-452F-XX-SMA-02 | ATT-452M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br><b>LOW VSWR</b> - see improved performance specifications on page 10. |                    |                    |



| Attenuation Value | Length A |
|-------------------|----------|
| 1-12 dB           | 0.90     |
| 13-30 dB          | 1.03     |

| DC - 4.0 GHz                                                                                                                      | 454 Series         | Model Numbers      |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Male/Female                                                                                                                       | Female/Female      | Male/Male          |
| ATT-0454-XX-SMA-02                                                                                                                | ATT-454F-XX-SMA-02 | ATT-454M-XX-SMA-02 |
| XX = Attenuation Value: Select 01-30dB in 1dB increments<br><b>LOW VSWR</b> - see improved performance specifications on page 10. |                    |                    |



| Attenuation Value | Length A |
|-------------------|----------|
| 1-12 dB           | 0.98     |
| 13-30 dB          | 1.12     |

- Notes:
1. Low VSWR Models are available in Hex Body - Designate by substituting "HEX" for "SMA" in Model No.
  2. U.S. Patent No. 3,824,506 applies to all "MINIPAD"® Fixed Attenuators



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**SKU Product Frequency Power Body Interface Gender dB**

Low VSWR Subminiature MINIPAD SMA Fixed Attenuators

|                    |            |      |   |     |         |     |   |                              |
|--------------------|------------|------|---|-----|---------|-----|---|------------------------------|
| ATT-0452-00-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 0 | <a href="#">More Details</a> |
| ATT-0452-01-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 1 | <a href="#">More Details</a> |
| ATT-0452-02-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 2 | <a href="#">More Details</a> |
| ATT-0452-03-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 3 | <a href="#">More Details</a> |
| ATT-0452-04-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 4 | <a href="#">More Details</a> |
| ATT-0452-05-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 5 | <a href="#">More Details</a> |
| ATT-0452-06-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 6 | <a href="#">More Details</a> |
| ATT-0452-07-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 7 | <a href="#">More Details</a> |
| ATT-0452-08-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 8 | <a href="#">More Details</a> |
| ATT-0452-09-       | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 9 | <a href="#">More Details</a> |

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|--------------------|------------|------|---|-----|---------|-----|----|------------------------------|--|
| SMA-02             |            |      |   |     |         |     |    |                              |  |
| ATT-0452-10-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 10 | <a href="#">More Details</a> |  |
| ATT-0452-11-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 11 | <a href="#">More Details</a> |  |
| ATT-0452-12-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 12 | <a href="#">More Details</a> |  |
| ATT-0452-13-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 13 | <a href="#">More Details</a> |  |
| ATT-0452-14-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 14 | <a href="#">More Details</a> |  |
| ATT-0452-15-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 15 | <a href="#">More Details</a> |  |
| ATT-0452-16-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 16 | <a href="#">More Details</a> |  |
| ATT-0452-17-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 17 | <a href="#">More Details</a> |  |
| ATT-0452-18-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 18 | <a href="#">More Details</a> |  |
| ATT-0452-19-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 19 | <a href="#">More Details</a> |  |
| ATT-0452-20-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 20 | <a href="#">More Details</a> |  |
| ATT-0452-21-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 21 | <a href="#">More Details</a> |  |

|                    |            |      |   |     |         |     |     |                              |
|--------------------|------------|------|---|-----|---------|-----|-----|------------------------------|
| ATT-0452-22-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 22  | <a href="#">More Details</a> |
| ATT-0452-23-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 23  | <a href="#">More Details</a> |
| ATT-0452-24-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 24  | <a href="#">More Details</a> |
| ATT-0452-25-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 25  | <a href="#">More Details</a> |
| ATT-0452-26-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 26  | <a href="#">More Details</a> |
| ATT-0452-27-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 27  | <a href="#">More Details</a> |
| ATT-0452-28-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 28  | <a href="#">More Details</a> |
| ATT-0452-29-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 29  | <a href="#">More Details</a> |
| ATT-0452-30-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 30  | <a href="#">More Details</a> |
| ATT-0452-70-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 0.5 | <a href="#">More Details</a> |
| ATT-0452-71-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 1.5 | <a href="#">More Details</a> |
| ATT-0452-72-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 2.5 | <a href="#">More Details</a> |
| ATT-0452-          |            |      |   |     |         |     |     |                              |

|                    |            |      |   |     |         |     |      |                              |
|--------------------|------------|------|---|-----|---------|-----|------|------------------------------|
| 73-SMA-02          | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 3.5  | <a href="#">More Details</a> |
| ATT-0452-74-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 4.5  | <a href="#">More Details</a> |
| ATT-0452-75-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 5.5  | <a href="#">More Details</a> |
| ATT-0452-76-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 6.5  | <a href="#">More Details</a> |
| ATT-0452-77-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 7.5  | <a href="#">More Details</a> |
| ATT-0452-78-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 8.5  | <a href="#">More Details</a> |
| ATT-0452-79-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 9.5  | <a href="#">More Details</a> |
| ATT-0452-80-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 10.5 | <a href="#">More Details</a> |
| ATT-0452-81-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 11.5 | <a href="#">More Details</a> |
| ATT-0452-82-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 12.5 | <a href="#">More Details</a> |
| ATT-0452-83-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 13.5 | <a href="#">More Details</a> |
| ATT-0452-84-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 14.5 | <a href="#">More Details</a> |
| ATT-0452-85-SMA-   | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 15.5 | <a href="#">More Details</a> |

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|--------------------|------------|------|---|-----|---------|-----|------|------------------------------|--|
| 02                 |            |      |   |     |         |     |      |                              |  |
| ATT-0452-86-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 16.5 | <a href="#">More Details</a> |  |
| ATT-0452-87-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 17.5 | <a href="#">More Details</a> |  |
| ATT-0452-88-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 18.5 | <a href="#">More Details</a> |  |

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**SKU Product Frequency Power Body Interface Gender dB**

Low VSWR Subminiature MINIPAD SMA Fixed Attenuators

|                    |            |      |   |     |         |     |      |                              |
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| ATT-0452-89-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 19.5 | <a href="#">More Details</a> |
| ATT-0452-90-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 20.5 | <a href="#">More Details</a> |
| ATT-0452-91-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 21.5 | <a href="#">More Details</a> |
| ATT-0452-92-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 22.5 | <a href="#">More Details</a> |
| ATT-0452-93-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 23.5 | <a href="#">More Details</a> |
| ATT-0452-94-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 24.5 | <a href="#">More Details</a> |
| ATT-0452-95-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 25.5 | <a href="#">More Details</a> |
| ATT-0452-96-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 26.5 | <a href="#">More Details</a> |
| ATT-0452-97-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 27.5 | <a href="#">More Details</a> |
| ATT-0452-98-       | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 28.5 | <a href="#">More Details</a> |

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| SMA-02             |            |      |   |     |         |     |      |                              |  |
| ATT-0452-99-SMA-02 | Attenuator | 12.4 | 2 | STD | SMA/SMA | M/F | 29.5 | <a href="#">More Details</a> |  |

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