



**CRYSTEK**  
MICROWAVE  
A DIVISION OF CRYSTEK CORPORATION

## 26.5 GHZ HAND FORMABLE .086 COAX CABLES



### 50 Ohm DC-26.5 GHz Hand Formable Coaxial Cables

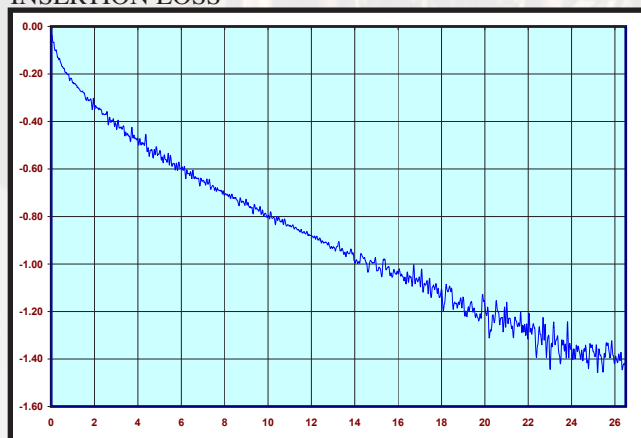
#### Features:

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Center Conductor:</b>      | Silver-plated copper wire                                  |
| <b>Outer Braid:</b>           | Tin-soaked copper braid, 100% coverage                     |
| <b>Insulation:</b>            | PTFE (Polytetrafluoroethylene) dielectric                  |
| <b>Cable Outer Diameter:</b>  | 0.086" (2.2mm)                                             |
| <b>Connectors:</b>            | Stainless Steel                                            |
| <b>Center Pin:</b>            | Gold-plated brass                                          |
| <b>Operating Temperature:</b> | -40°C to +85°C                                             |
| <b>Minimum Bend Radius:</b>   | 0.125" (3.17mm) single bend<br>0.99" (25mm) multiple bends |

*Electrically Matched Pairs Available*

PN: CCSMA26.5-MM-086-12

#### INSERTION LOSS



#### Electrical Specifications:

|                                                                    |                                                                                                                                  |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Impedance:</b>                                                  | 50 Ohms                                                                                                                          |
| <b>Frequency:</b>                                                  | DC to 26.5 GHz                                                                                                                   |
| <b>Insertion Loss:</b>                                             | 1.40 dB/ft at 26.5 GHz                                                                                                           |
| <b>VSWR:</b>                                                       | <1.3, DC to 26.5 GHz                                                                                                             |
| <b>Nominal Capacitance:</b>                                        | 29 pF/ft                                                                                                                         |
| <b>Velocity of Propagation:</b>                                    | 70%                                                                                                                              |
| <b>Shield Effectiveness:</b>                                       | Greater than 100 dB                                                                                                              |
| <b>Attenuation (dB/ft):</b>                                        | 0.16 Typical at 0.5 GHz<br>0.22 Typical at 1 GHz<br>0.80 Typical at 10 GHz<br>1.13 Typical at 18 GHz<br>1.40 Typical at 26.5 GHz |
| *connector loss not included<br>(refer to actual cable plot below) |                                                                                                                                  |

|                              |               |
|------------------------------|---------------|
| <b>Avg Power in (Watts):</b> | 900 @ 100 MHz |
|                              | 200 @ 1 GHz   |
|                              | 50 @ 10 GHz   |

\*as specified at 20°C

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| <b>Applications:</b> | Jumpers<br>Instrumentation<br>High Frequency Interconnects |
|----------------------|------------------------------------------------------------|



### SMA / SMA [Straight/Straight]

| Part Number         | Description                                                     | Length |
|---------------------|-----------------------------------------------------------------|--------|
| CCSMA26.5-MM-086-3  | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 3"     |
| CCSMA26.5-MM-086-4  | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 4"     |
| CCSMA26.5-MM-086-5  | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 5"     |
| CCSMA26.5-MM-086-6  | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 6"     |
| CCSMA26.5-MM-086-7  | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 7"     |
| CCSMA26.5-MM-086-8  | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 8"     |
| CCSMA26.5-MM-086-10 | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 10"    |
| CCSMA26.5-MM-086-12 | .086 Hand Formable Coax Cable, SMA Male/Male, Straight/Straight | 12"    |



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FAX: 239-561-1025 • WWW.CRYSTEK.COM Date: 04-07-14



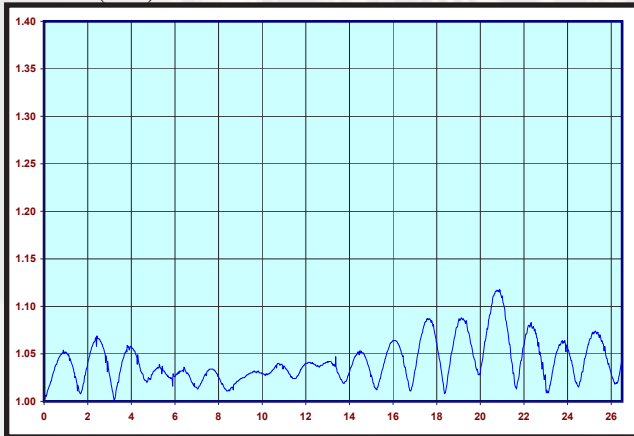
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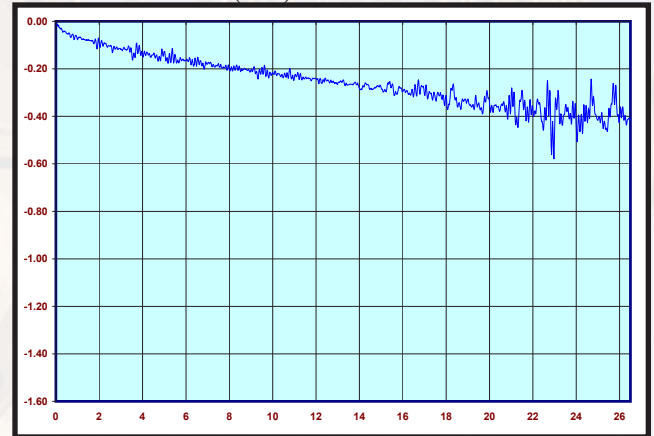


Data plots contained within this specification are generated from actual production cable assemblies. This data represents the typical performance that can be expected from each cable assembly. The data is plotted from raw data without modification (ie: Smoothing or Averaging.)

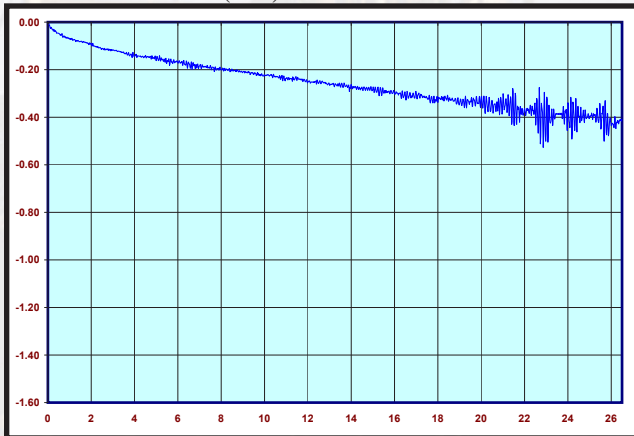
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VSWR (S11)



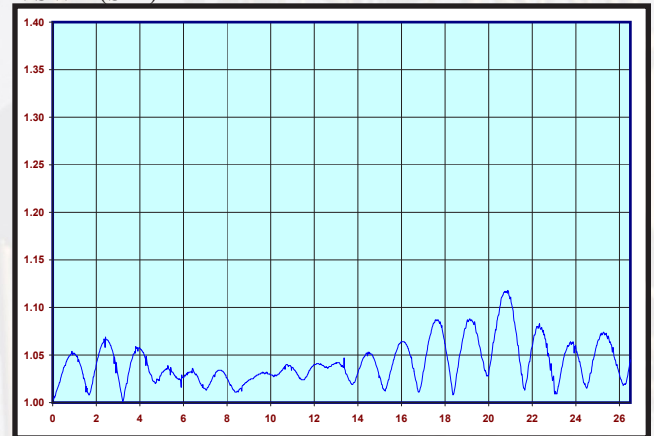
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INSERTION LOSS (S12)



PN: CCSMA26.5-MM-086-3  
INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-3  
VSWR (S22)





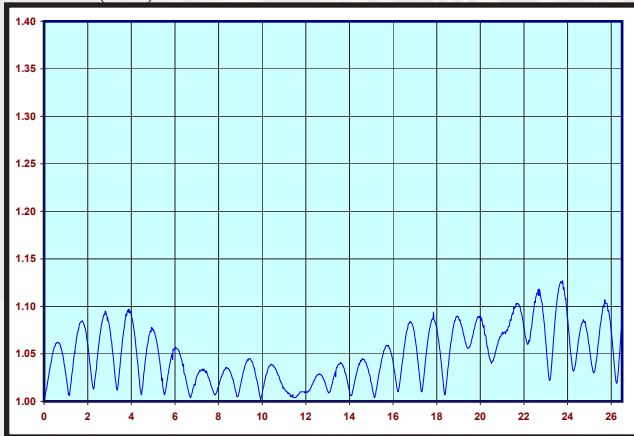
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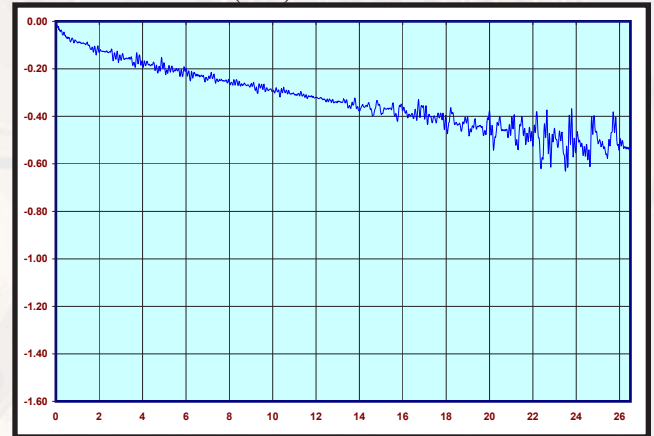


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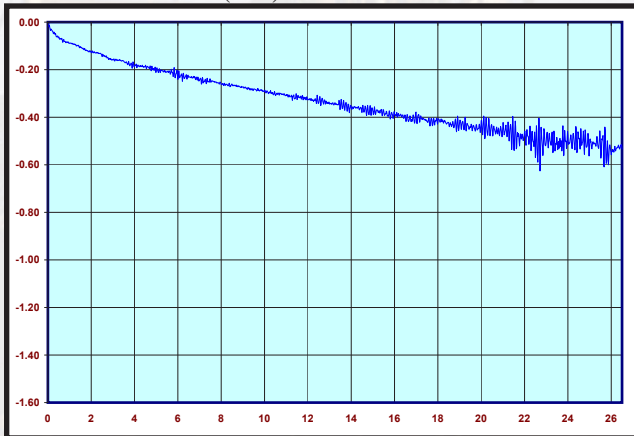
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VSWR (S11)



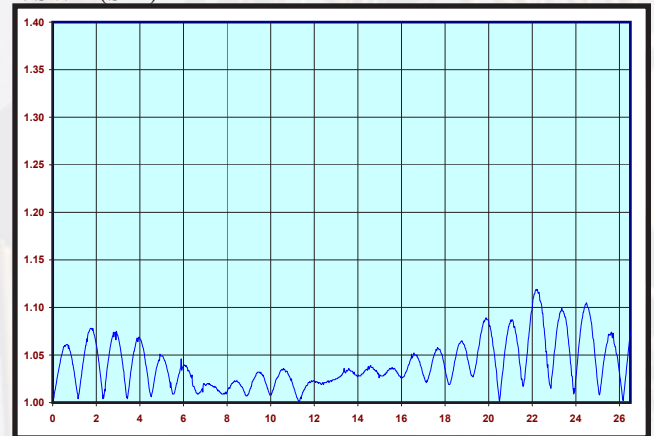
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PN: CCSMA26.5-MM-086-4  
INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-4  
VSWR (S22)





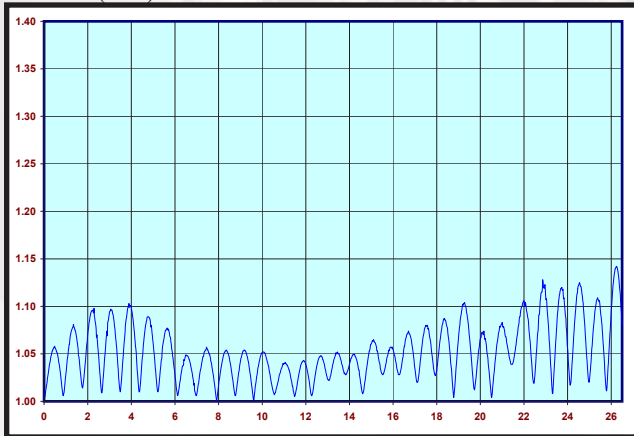
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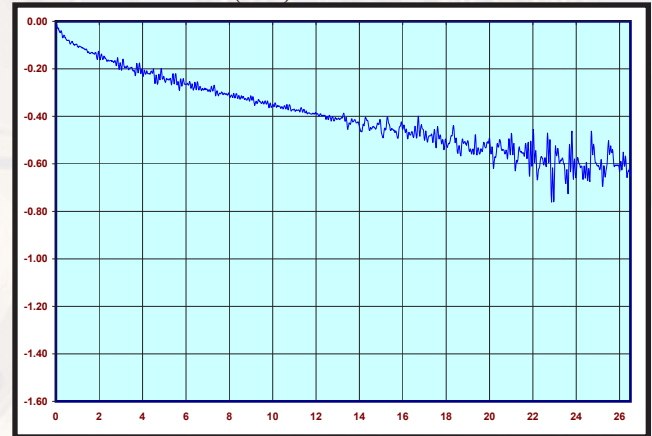


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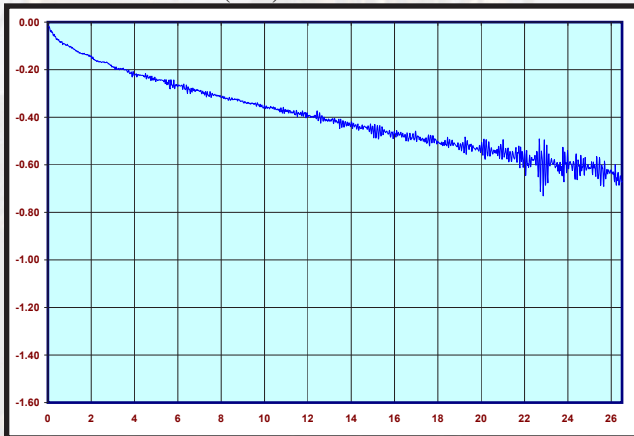
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VSWR (S11)



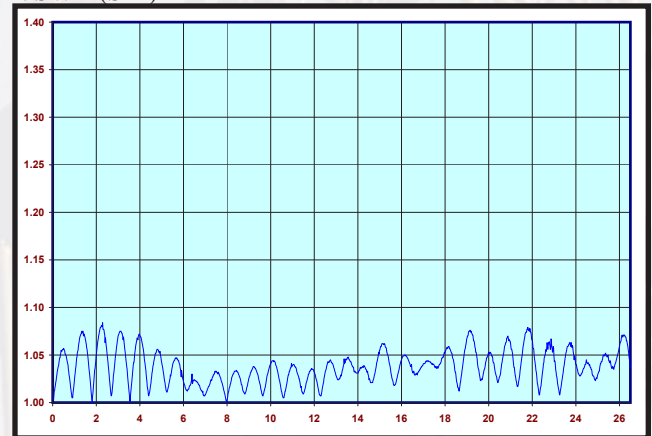
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INSERTION LOSS (S12)



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INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-5  
VSWR (S22)





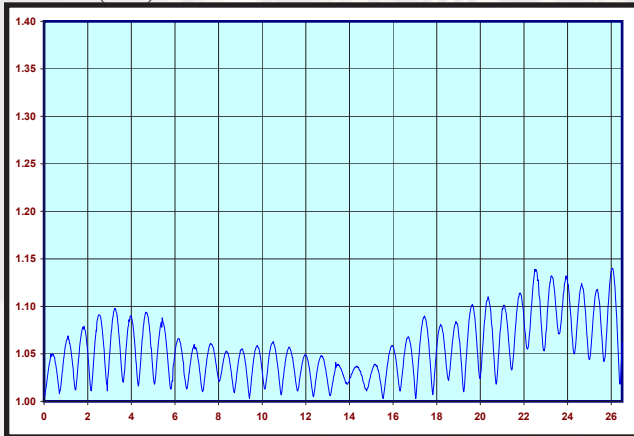
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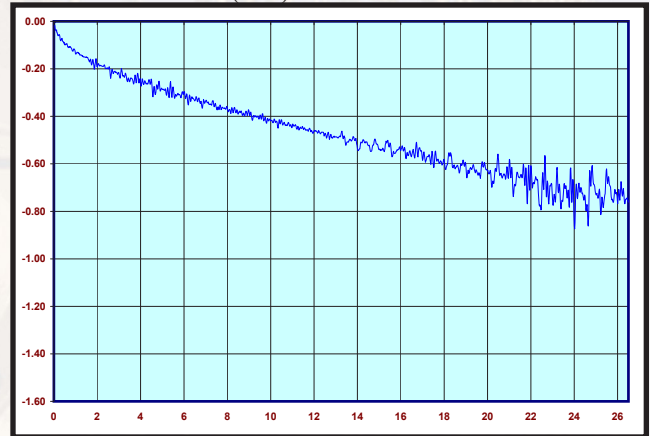


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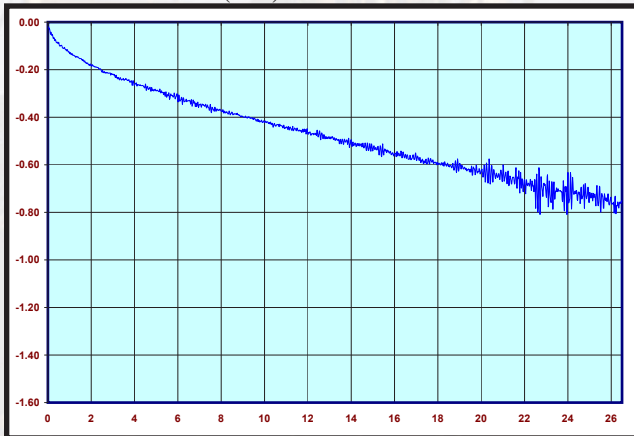
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VSWR (S11)



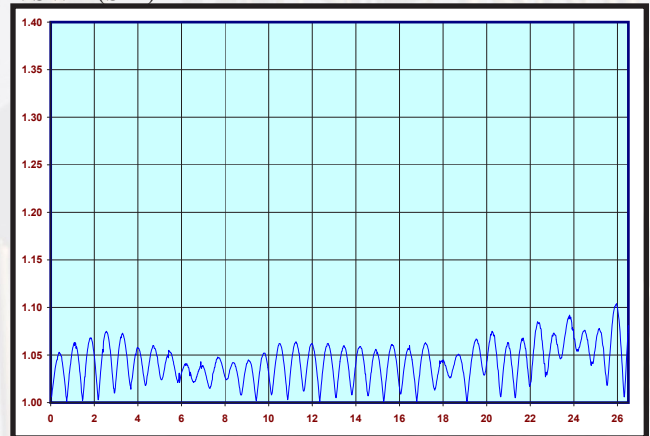
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INSERTION LOSS (S12)



PN: CCSMA26.5-MM-086-6  
INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-6  
VSWR (S22)



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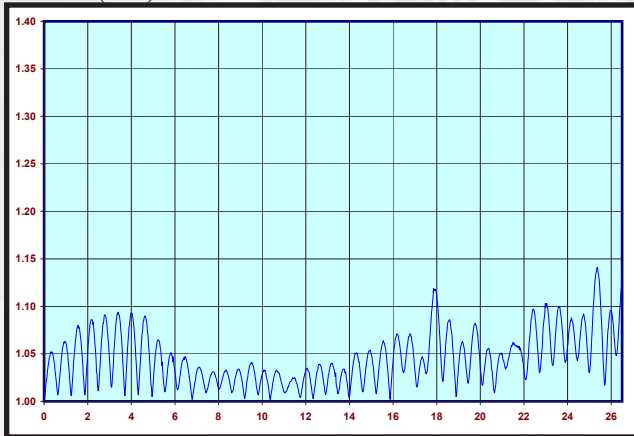
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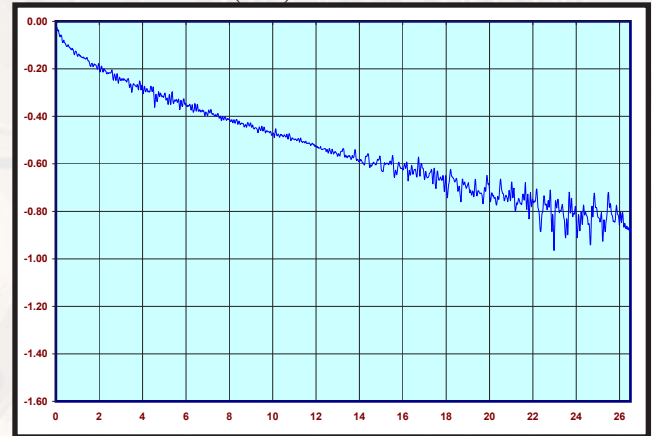


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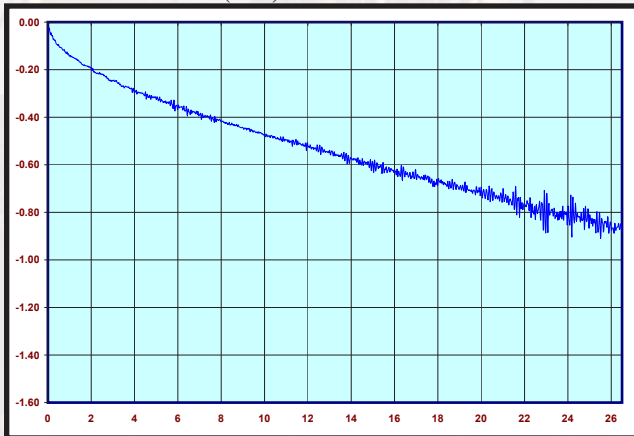
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VSWR (S11)



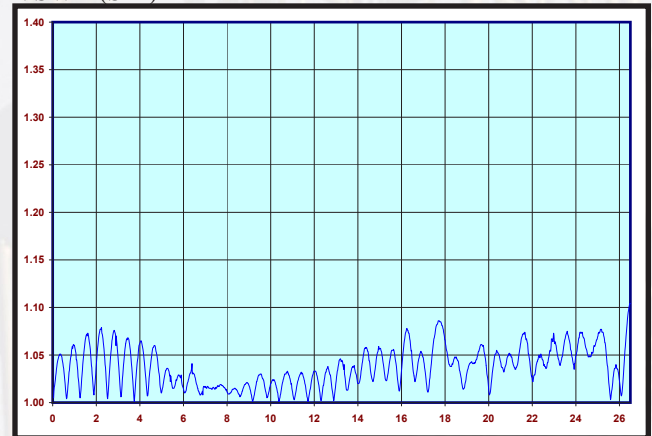
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INSERTION LOSS (S12)



PN: CCSMA26.5-MM-086-7  
INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-7  
VSWR (S22)





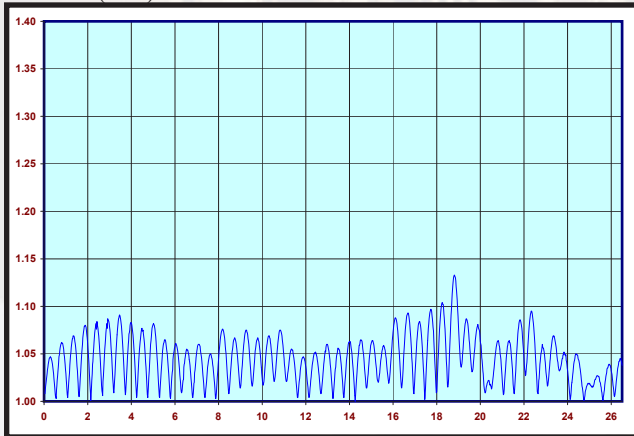
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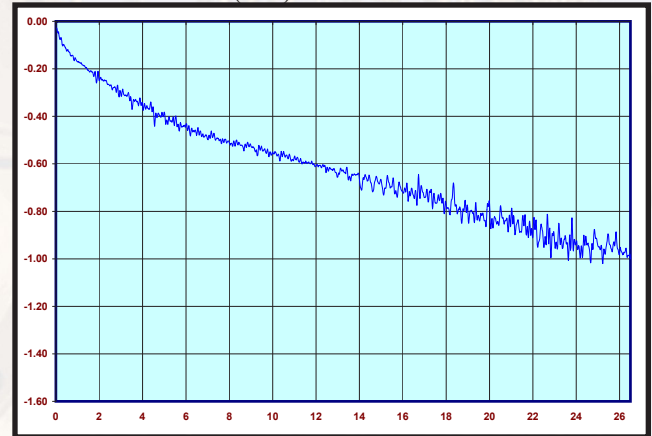


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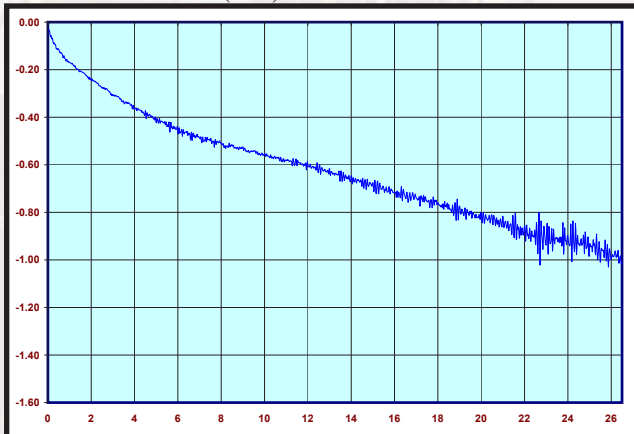
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VSWR (S11)



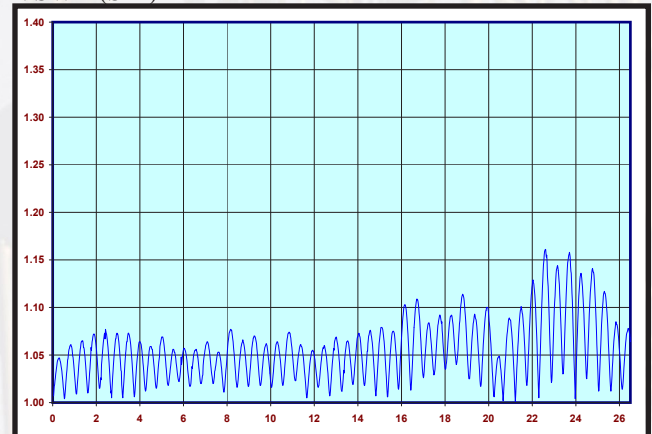
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INSERTION LOSS (S12)



PN: CCSMA26.5-MM-086-8  
INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-8  
VSWR (S22)





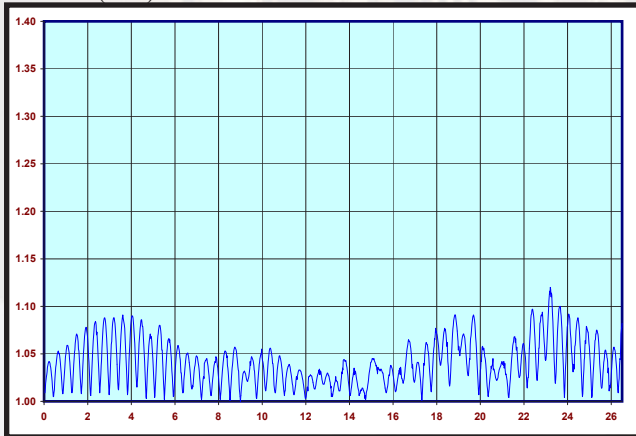
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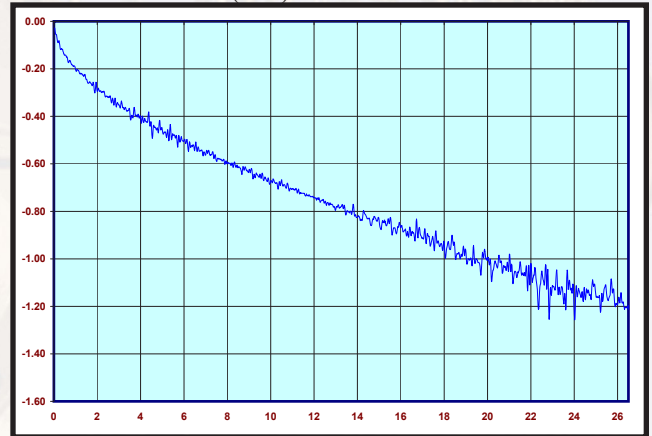


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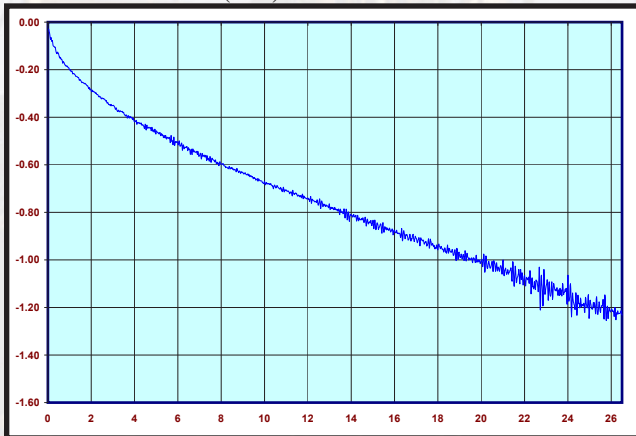
PN: CCSMA26.5-MM-086-10  
VSWR (S11)



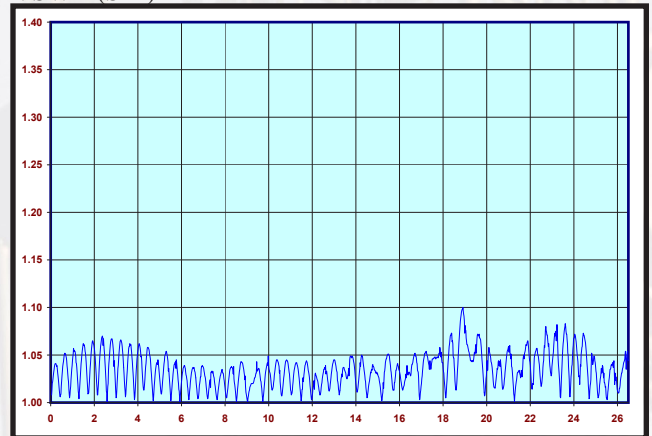
PN: CCSMA26.5-MM-086-10  
INSERTION LOSS (S12)



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INSERTION LOSS (S21)



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VSWR (S22)



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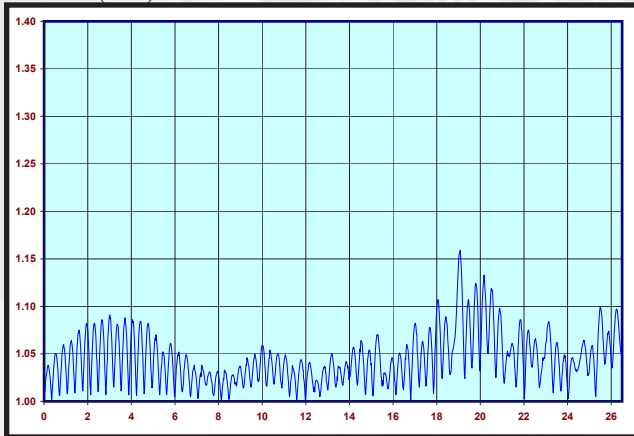
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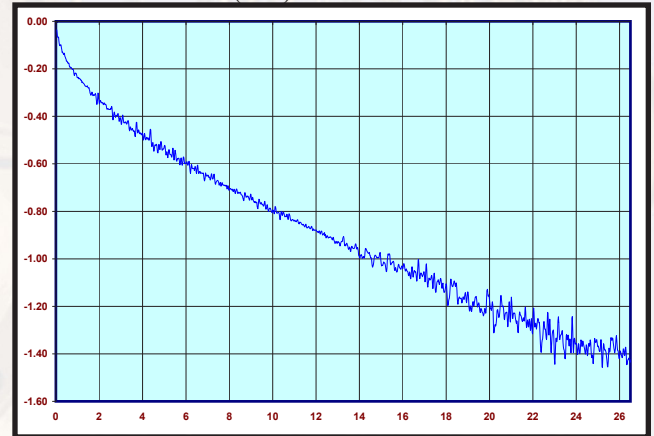


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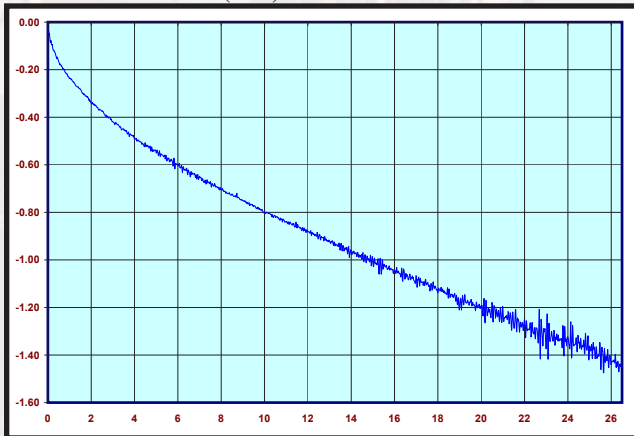
PN: CCSMA26.5-MM-086-12  
VSWR (S11)



PN: CCSMA26.5-MM-086-12  
INSERTION LOSS (S12)



PN: CCSMA26.5-MM-086-12  
INSERTION LOSS (S21)



PN: CCSMA26.5-MM-086-12  
VSWR (S22)

