



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







**CRYSTEK**  
**MICROWAVE**  
 A DIVISION OF CRYSTEK CORPORATION

# FLEXIBLE 086 PRECISION 18GHZ RF COAX CABLE ASSEMBLIES



## 086 Flexible 50 Ohm 18GHz Coaxial Cables

### Features:

- Strain Relief:** Heavy duty adhesive strain relief.
- Center Conductor:** SPCS (Silver-plated copper solid)
- Inner Braid:** Flat Silver plated copper strip
- Outer Braid:** PC (Round Silver-plated copper braid)
- Dielectric:** PTFE (Polytetrafluoroethylene)
- Jacket:** ETFE (Ethylene Tetrafluoroethylene Copolymer)
- Cable Outer Dia.** 0.100 (2.54mm)
- Connectors:** Gold Plated Brass
- Center Pin:** GPBC( Gold-plated brass)
- Jacket Color:** Blue
- Operating Temperature:** -45°C to +85°C  
(Also available in -55°C to +125°C)
- Minimum Bend Radius:** 0.15"

### Electrical Specifications:

- Impedance:** 50 Ohms
- Frequency:** Up to 18 GHz
- Insertion Loss:** 1.06 dB/ft Typ. at 18GHz
- VSWR:** <1.3 to 18GHz
- Nominal Capacitance:** 29 pF/ft
- Velocity of Propagation:** 70%
- RF Shielding:** < -100 dB
- Attenuation (dB/ft):** 0.15 Typ. at 500MHz  
\*connector loss not included
- 0.21 Typ. at 1GHz
- 0.38Typ. at 3GHz
- 0.56 Typ. at 6GHz
- 0.83 Typ at 12GHz
- 1.06 Typ at 18GHz

- Max Power in (dBm):** 0.18 @ 500MHz
- \*as specified at 25°C/sea level
- 0.13 @ 1GHz
- 0.08 @ 3GHz
- 0.05 @ 6GHz
- 0.04 @ 12GHz
- 0.03 @ 18GHz

### Available Connector Terminations:

- SMA Male
- SMA Female
- SMA Male Right Angle



*Custom Lengths Available*



### **SMA / SMA [Straight/Straight]**

Part Number	Description	Length
CCSMA18-MM-086F-12	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	12"
CCSMA18-MM-086F-24	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	24"
CCSMA18-MM-086F-36	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	36"
CCSMA18-MM-086F-48	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	48"
CCSMA18-MM-086F-60	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	60"
CCSMA18-MM-086F-72	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	72"
CCSMA18-MM-086F-120	086 Flexible RF Coax Cable, SMA Male/Male, Straight/Straight	120"



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 CORPORATION

12730 COMMONWEALTH DRIVE • FORT MYERS, FL 33913  
 PHONE: 239-561-3311 • 800-237-3061  
 FAX: 239-561-1025 • WWW.CRYSTEK.COM

Rev.: A  
 Date: 02-21-11



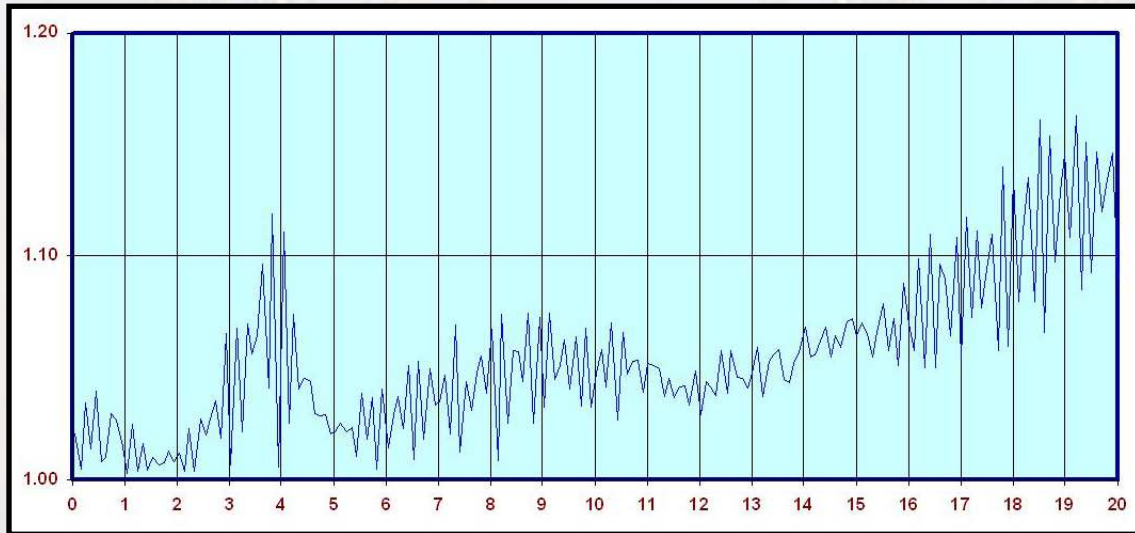
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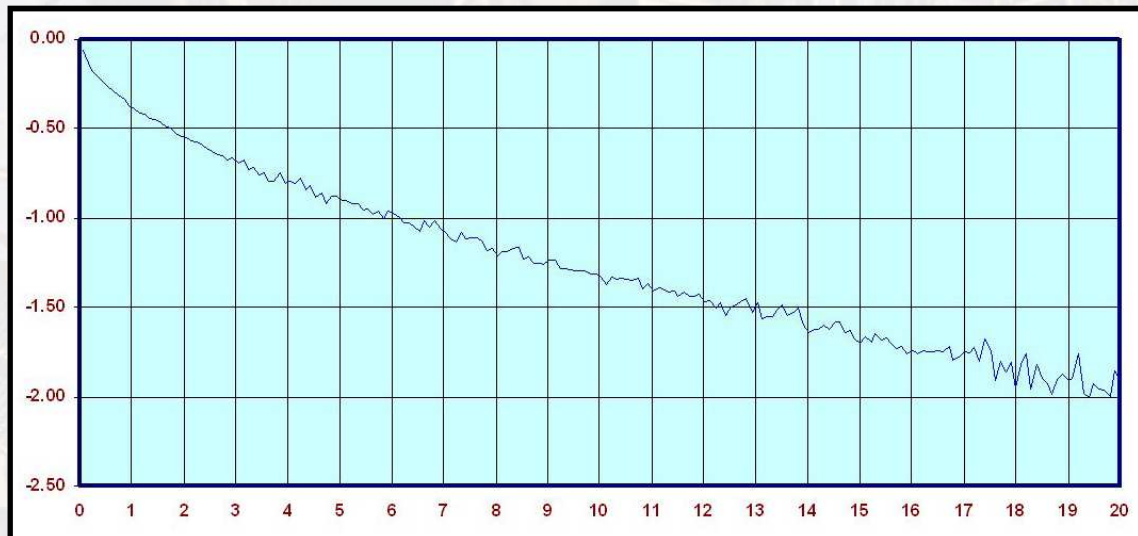
**S11**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



**S12**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



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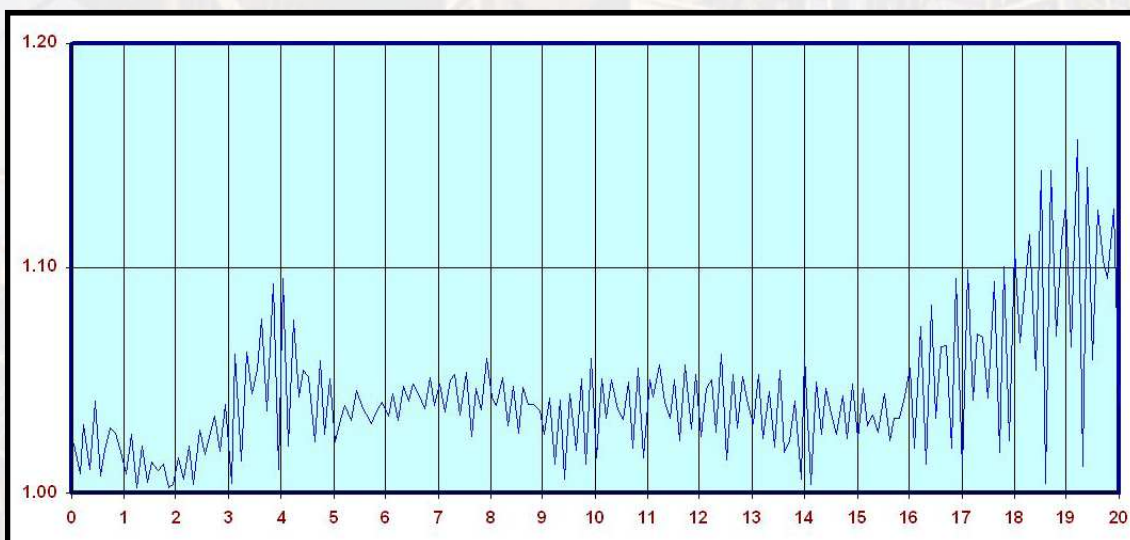
**S21**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



**S22**

**Actual Data Plot PN: CCSMA18-MM-086F-24**



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