



COMPONENT NEWS

PREPRODUCTION ENGINEERING

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COMPILED BY PRODUCT RELIABILITY INFORMATION

NO. 93

DATE 11-19-68

ADHESIVE LABELS

Recently two types of permanent adhesive labels for *TEKTRONIX* equipment have been evaluated. One label is an .003 inch thick adhesive backed, aluminum plate with printed lettering. The other is a .003 inch thick laminated *MYLAR* label which has an adhesive back.

Selection of one of these labels for a particular design requirement should consider the base material to which it is bonded. Prime concern is for matching the temperature coefficient of expansion of the label to the base material. If a large mis-match occurs, the adhesive will suffer stresses and the label will buckle when exposed to the temperature cycling. As a consequence the aluminum label is best suited for bonding to a metallic surface, the *MYLAR* label is best suited for bonding to a plastic surface.

For further information contact me at Ext 415.

-Gary Virgin

CAPACITORS

Samples of aluminum electrolytic capacitors with printed-circuit terminals are being supplied to Instrument Engineering. It should be noted that while the capacitor can be mounted on the circuit board, it must be hand-soldered after the cleaning process. The capacitor seal is known to be unable to withstand the *TEKTRONIX* ECB cleaning.

Samples of *ERIE* extended range Style 538 ceramic trimmer with monolithic rotor will be available for evaluation about Week 49. Capacitance range will be 15 to 100pF, or per *TEK* requirement.

A comment on the article entitled "Reading Capacitor Codes" in *SERVICE SCOPE* #52. The information, discounting several editorial compromises, should be considered generally applicable only to capacitors in use at *TEKTRONIX* before 1968.

For further information contact me at Ext 7268.

-Joe Yuen

MICRO-MINIATURE 50Ω CABLE

CINCH in its Plaxial Cable Department has developed a micro miniature 50Ω solid sheath cable. The trade name is *MINIPLAX*®. The electro-deposited outer conductor (shield) provides 100% shielding and according to the manufacturer provides flexibility.

The specifications are as follows:

Cable Type: 7-50

Center Conductor: AWG #42 (.0025")
high-strength copper alloy

Center Conductor Plating: 125
microinches of gold

Dielectric Diameter: .0084"

Dielectric Material: FEP or TFE
Teflon*

Outer Conductor Material: Electro-
deposited OHFC copper

Overall Diameter: .01"

Temperature Range: -65°C to +125°C

Characteristic Impedance: 50 ±4 ohms

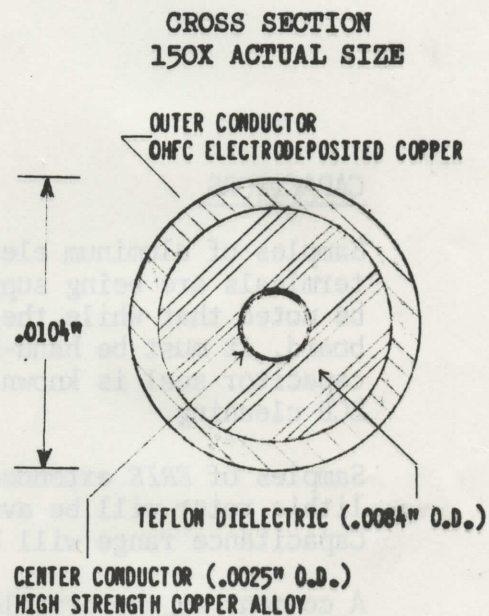
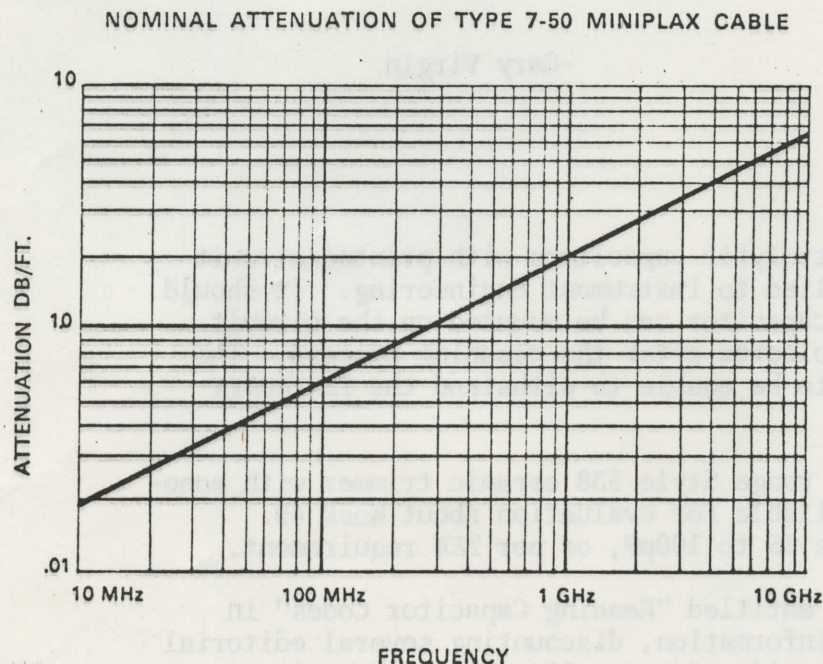
Capacitance: 29 pF/ft

Delay: 1.47 ns/ft

Minimum Bend Radius: 1/8 in.

Attenuation: See Chart

*T.M. DuPont



For further information contact me at Ext 417.

-Stan Chojecki