Micro Miniature Coaxial Connectors (MMS)

Minicoaxial connector applicable in high frequency assemblies
Applications for 50 Ω up to 6 GHz Important Notice
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All statements define a information and recommendations related to the select's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilized intended uses thereof is not guaranteed. Before utilized intended uses thereof is not guaranteed. Before utilized intended uses there are assured and its selection of the selection of th

SELLER SHALL NOT BE LIABLE TO THE USER OR ANY OTHER PERSON UNDER ANY LEGAL THEORY, INCLUDING BUT NOT LIMITED TO NEGLIGENCE OR STRICT LIABILITY, FOR ANY INJURY OR FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES SUSTAINED OR INCURRED BY REASON OF THE USE OF ANY OF THE SELLER'S PRODUCTS.

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Cable Assemblies

Physical

160

InsulationMaterial:PTFEFlammability:UL 94V-0ContactMaterial:BrassPlating:Nickel 30μ" min (.26μm) GoldBodyMaterial:Zamac (Zinc Alloy)Plating:Nickel

Electrical

Voltage Rating:	50 Vrms Max	
Current:	0.9 A Max	
Power:	40 W Max	
Insulation resistance:	$5 imes 10 \ \Omega$	
Withstanding Voltage:	250 Vrms	
Characteristic Impedance:	50 Ω	
Bandwidth (50 Ω):	6 GHz	
Bandwidth (75 Ω):	1 GHz	
VSWR :	50 Ω (Mated Pair) 1.07 at 2 GHz	75 Ω (Mated Pair)1.14 at 1 GHz
RF Insertion Loss:	0.2 dB at 2 GHz	
RF Leakage (Mated Pair):	-40 dB at 2 GHz	

Mechanical

Connector Insertion/Withdrawal Force: Cable Retention Force: 66.7 N Min Durability (Insertion/Withdrawal): 50 cycles

2 N Min, 10 N Max

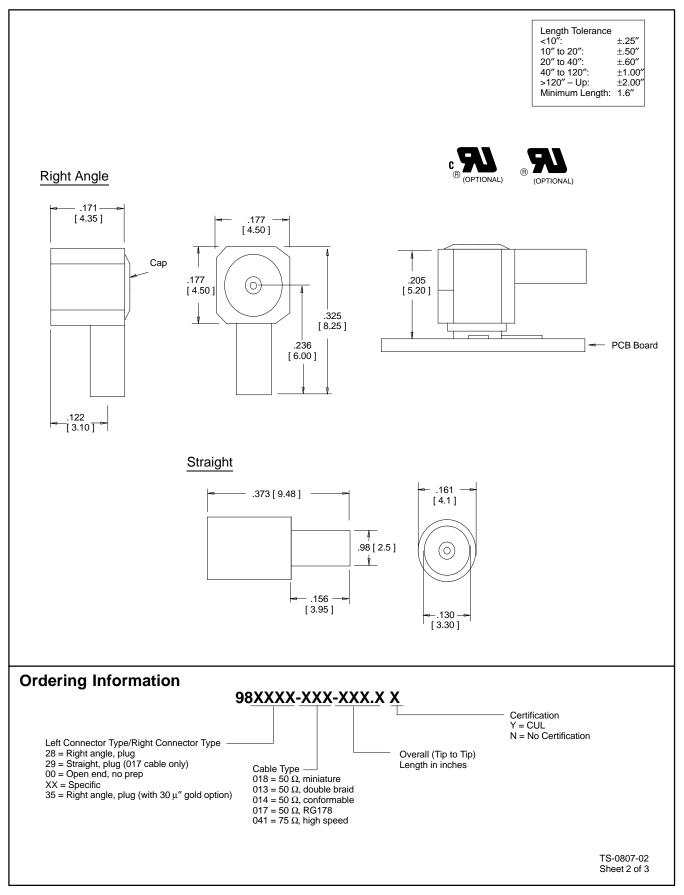
Environmental

Temperature Rating: -40° to +90°C UL File No.: E86982 (Optional)

3M Electronic Products Division 6801 River Place Blvd. Austin, TX 78726-9000 For Technical information and quoting call 800-334-7372 For ordering information call 800-225-5373

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Cable Assemblies



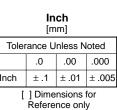
Micro Miniature Coaxial Connectors (MMS)

	Cable Specif	ication			
			<i>7772</i>	A B D	С
		Mecha	nical Specifications (TYP)	
		Α	В	С	D
	Cable Type	Center Conductor	Dielectric Material	Shield (Braid)	Jacket
013	$50\pm5~\Omega$	24 AWG Solid SPC .0201" (.51 mm) O.D.	Foamed FluoroPolymer .056" nominal O.D. (1.47 mm nominal)	38 AWG SPC Double Braided 90% nominal coverage each .063" (1.60 mm)	FEP Teflon .077" nominal (1.96 mm nominal)
014	50 Ω nominal	24 AWG Solid SCCCS .0201" (.51 mm) O.D.	PTFE .064" nominal O.D. (1.63 mm nominal)	Copper Conformable Tin Composit Braid 100% coverage	None
017	$50 \pm 2 \Omega$	30 AWG Stranded (7/38) SCCCS .012" (.30 mm) O.D.	PTFE .033" nominal O.D. (.84 mm nominal)	38 AWG SPC Braid 95% nominal coverage .059" (1.50 mm)	FEP Color Natural .07" nominal (1.90 mm)
019	50 + 5 0	34 AWG Stranded SPA	PTFE	40 AWG SPC Braid	FEP Color White

018	$50 \pm .5 \ \Omega$	34 AWG Stranded SPA .0075" (.19 mm) O.D.	PTFE .022" nominal O.D. (.57 mm nominal)	40 AWG SPC Braid 87% minimum coverage	FEP Color White .05" nominal (1.27 mm nominal)
041	$75\pm3~\Omega$	30 AWG Stranded (7/38) SPC .012" (.30 mm) O.D.	FEP .045" nominal O.D. (1.1 mm nominal)	40 AWG TPC Braid 90% nominal coverage .059" (1.50 mm)	FEP Color Gray .074" nominal (1.88 mm)

Teflon is a registered trademark of E. I. du Pont de Nemours & Co., Inc.

Cable Type		Capacitance	Propagation Delay	Attenuation	Conductor DC Resistance
013	$50 \pm 5 \ \Omega$	24 pF/ft nominal	1.20 ns/ft	27 dB/100 ft @ 1 GHz	25.7 Ω/kft
		(78 pF/m nominal)	(3.9 ns/m)	(89 dB/100 m)	(84.31 Ω/km)
014	50Ω nominal	29.5 pF/ft nominal	1.45 ns/ft	13 dB/100 ft @ 400 MHz	64.2 Ω/kft
		(97 pF/m nominal)	(4.76 ns/m)	(43 dB/100 m)	(211 Ω/km)
017	$50 \pm 2 \Omega$	32 pF/ft nominal	1.46 ns/ft	33 dB/100 ft @ 400 MHz	240 Ω/kft
		(105 pF/m nominal)	(4.8 ns/m)	(108 dB/100 m)	(787 Ω/m)
018	$50 \pm .5 \ \Omega$	29.26 pF/ft nominal	1.43 ns/ft	30 dB/100 ft @ 200 MHz	225 Ω/kft
		(96 pF/m nominal)	(4.7 ns/m)	(110 dB/100 m)	(738 Ω/km)
041	$75 \pm 3 \Omega$	16 pF/ft nominal	1.22 ns/ft	10 dB/100 ft @ 100 MHz	90 Ω/kft
		(52 pF/m nominal)	(4.0 ns/m)	(27.5 dB/100 m)	(295 Ω/km)



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