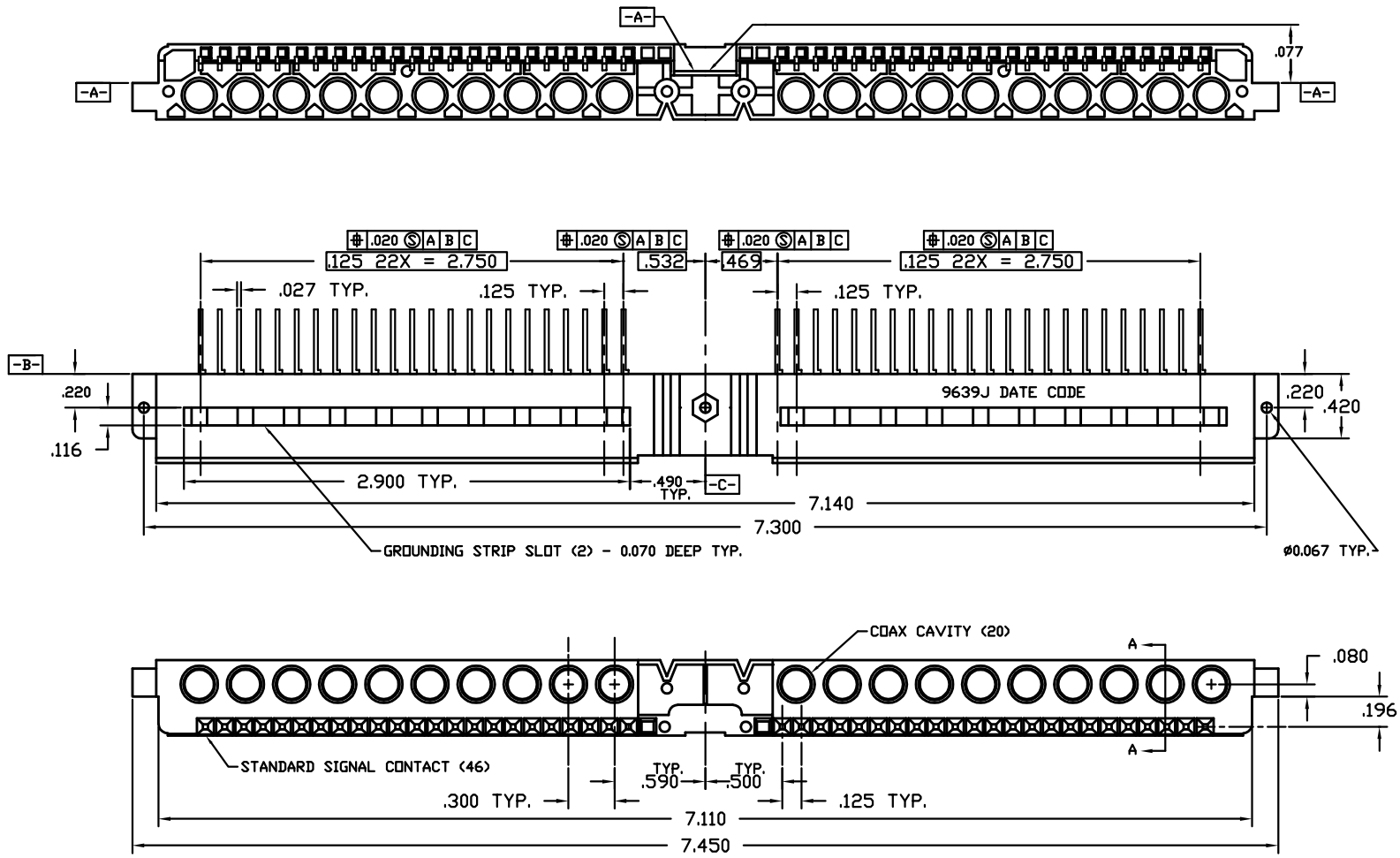
PRODUCT NO.
9639J



FRONT, TOP, BACK VIEWS

mat'l. code SHEET 4				tolerances unless otherwise specified			CUSTOMER COPY	FCI www.fciconnect.com
ltr	ecn no	dr	date					
A	V20161	CHD	1/24/02	linear			projection	title: 9639J CONNECTOR
B	V03-0916	LP	10/25/03	angles				
				dr	L.SANDERS	10/16/00	INCH	product family: FASTECH; code: 213
				engr	R.CONRAD	10/16/00		size: A; dwg no: A94KC4019; sheet: 1 of 4
				chr	R.CONRAD	10/16/00	scale 1:1	
				appd	R.CONRAD	10/16/00		
sheet index	revision sheet	B 1	B 2	B 3	B 4			cage code: 22526

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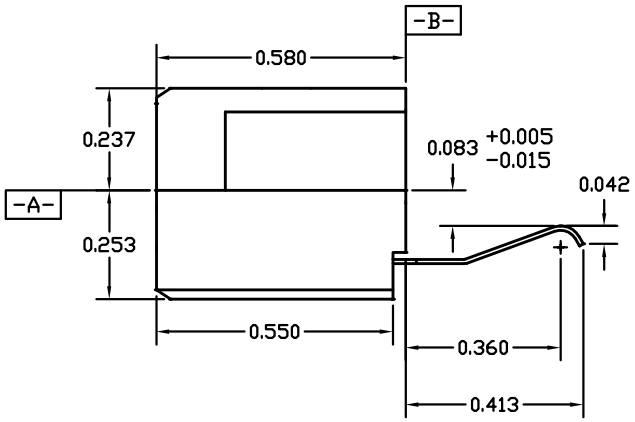
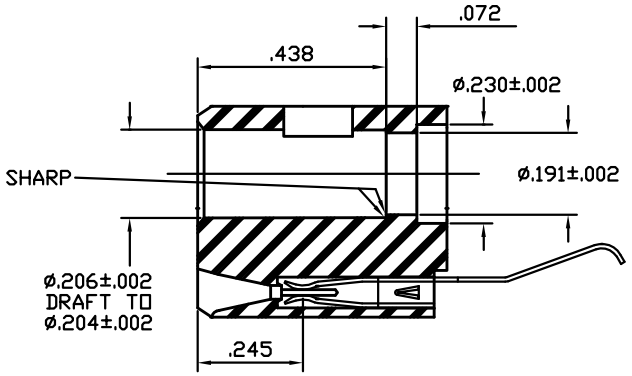
PRODUCT NO.
9639J



FRONT RIGHT END VIEW



SECTION A–A

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				angles					
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				engr	R.CONRAD	10/16/00			size: A; dwg no: A94KC4019; sheet: 2 of
				chr	R.CONRAD	10/16/00		scale 1:1	
				appd	R.CONRAD	10/16/00			
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9639J Customer Application Information

General Description

The 9639J circuit pack connector is a non-standard Fastech connector that contains 46 standard signal contacts on .125' centers with surface solder tails. The 9639J connector is also capable of housing up to 20 special length 50 ohm D-subminiature coaxial cable contacts (AT&T KS-22694, list 10). Slots exist along the top of the connector for optional use of conductive material to provide addition grounding of each coax shield to a conductive housing and each other. The 9639J circuit pack connector mates with a single column of 46 backplane pins (.025' square) with an adjacent 9639D coaxial backplane connector housing equipped with coaxial cable contacts (AT&T KS-22694 list 7, 9, or 11).

Assembly

The solder-dipped tails are soldered to printed circuit board lands. The connector and printed circuit board are then mounted to a user designed circuit pack housing. Since this connector does not incorporate attachment of the connector insulator directly to the printed circuit board, the circuit pack assembly should be designed in such a manner that minimal stress is applied to the 9639J connector surface solder joints during assembly and prolonged use. Significant amounts of stress to the solder joints over an extended period of time can result in solder joint failure.

Product Application Considerations

Standard Fastech keying is currently not available with this connector.
Fastech 5-Type shorting contacts may be used with the single column of pins if permitted by the user's housing.

Associated Products

1-Type contacts
AT&T KS-22694, List 10 Coaxial Receptacle Cable Contact (circuit pack)
9639D coaxial backplane connector housing
KS-22694, List 7, 9, and 11 Coaxial Plug Cable Contact (backplane)

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SHEET 4									
ltr	ecn no	dr	date	linear			projection	title 9639J CONNECTOR	
B				angles					
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				engr	R.CONRAD	10/16/00		size A dwg no A94KC4019	sheet 3 of
				chr	R.CONRAD	10/16/00	scale 1:1		
				appd	R.CONRAD	10/16/00			
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9639J

Technical Specifications

Contact Spacing:	Standard Signal	0.125 IN.
	Coaxial Contact	0.300 IN.
Contact Type:	Standard Signal	Dual Beam Socket
	Coaxial Contact	Special D-Subminiature (AT&T KS-22694, List 10)
Contact Finish	Standard Signal	C72500 Au/Pd/Ag INLAY
	Coaxial Contact	50 microinches Gold Minimum
Base Metal:	Standard Signal	Copper-Nickel-Tin Alloy (C72500)
	Coaxial Contact	Beryllium Copper
Backplane Contact:	Standard Signal	1-Type Contact or Equivalent
	Coaxial Contact	AT& T KS-22694, List 7, 9, 11
Insulator:	Material	Polyphenylene Sulfide (PPS) 40% Glass Filled
	Flammability Rating	UL 94 V-0, Oxygen Index = 47
	Operating Temperature	-55 to 85 Degrees Centigrade
Voltage Rating:	Standard Signal	1000 Volts RMS Minimum
	Coaxial Contact	1000 Volts RMS Minimum
Durability:	Standard Signal	200 Insertion/Extraction Cycles Minimum
	Coaxial Contact	200 Insertion/Extraction Cycles Minimum
Insertion Force:	Standard Signal	.3 pounds Maximum
	Coaxial Contact	3 pounds Maximum
Extraction Force:	Standard Signal	.2 pounds Maximum
	Coaxial Contact	3 pounds Maximum
Retention Force:	Standard Signal	2 pounds Minimum
	Coaxial Contact Signal	1.5 pounds Minimum
	Coaxial Contact Shield	20 pounds Minimum

Coaxial Contact Electrical Characteristics

Impedance	50 ohms
VSWR	1.3 at 500 - 1000 MHZ
Isolation	40 DB at 0 - 1000 MHZ
Temperature Rise	50°C @ 50 Watts RF (500-1000 MHZ) & 65°C Ambient

Contact Termination:	Standard Signal	Surface Solder
	Coaxial Cable Contacts	
	Signal	Solder Cup
	Shield	Crimp

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				appd	R.CONRAD	10/16/00			
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