

PRODUCT SPECIFICATION SHEET

Product Name: Signamax™ Multimedia Keystone Jacks

F-Type Keystone Modules Specifications

Transmission Performance

CMK-F:	up to 1 MHz
--------	-------------

CMK-F3:	up to 3 MHz
---------	-------------

Transmission Media

Coaxial, 75 Ohm (RG6/U, RG-58/U)

Wire Gauge

18–22 AWG (0.64 – 1.07 mm) solid

Electrical

Frequency range:

CMK-F	1 GHz DC
-------	----------

CMK-F3	3 GHz DC
--------	----------

Impedance:	75 Ohm
------------	--------

Insertion loss : < 0.3 dB at 1 GHz

CMK-F	< 0.3 dB
-------	----------

CMK-F3	< 0.2 dB
--------	----------

Return loss:

CMK-F3	> 30 dB
--------	---------

Contact resistance:	< 4 mOhm
---------------------	----------

Insulation resistance:	min 500 MOhm at 100 Vdc
------------------------	-------------------------

Inductance:	min 500 nH
-------------	------------

Capacitance:	min 2 x 1.5 nF
--------------	----------------

Operational voltage:	250 Vdc
----------------------	---------

Test voltage:	750 Vdc for 1 min
---------------	-------------------

Peak voltage rating:	500 V
----------------------	-------

Dielectric withstanding voltage:	1,500 Vrms
----------------------------------	------------

Feed-through current:	max 10 A
-----------------------	----------

F-Type Keystone Modules Specifications

Construction

Housing:	high impact thermoplastic, UL94V-0 fire retardant
Shell:	brass, nickel plated
Seizing pin:	
CMK-F	bronze alloy, tin plated
CMK-F3	360-degree beryllium bronze, gold plated
Insulation:	
CMK-F	low-density polyethylene (LDPE)
CMK-F3	nylon
Nut:	iron plated with nickel over copper

Mechanical

Mating cycles:	min 500
Holding force:	> 160 g (initial)
	> 120 g (after insertion)
Interface dimensions:	similar to MIL-C-39012

Housing shall support 2.2 kg force minimum applied from either direction

Footprint

Standard keystone footprint

Mounting Dimensions

1.18"D x 0.77"H x 0.65"W (30.0 mm D x 19.7 mm H x 16.5 mm W)

Environmental Conditions

Storage:	-40°C – +70°C (-40°F – +158°F)
Operation:	-10°C – +60°C (+14°F – +140°F)
RH (operation):	max non-condensing 93%

Vibration, shock, and temperature cycling in accordance with MIL-STD-1344

Compliance

ANSI/SCTE 02, IEC 60169-24, UL 94V-0

Applications

Over-the-air terrestrial television, cable television, satellite television, cable modems

Warranty

5-year limited component warranty

Fiber Optic Keystone Modules Specifications

Transmission Performance

ANSI/TIA-568-C.3:	Meets or exceeds performance specifications
-------------------	---

Transmission Media

Multimode (OM1, OM2, OM3) and singlemode (OS1) optical fiber with 125 μ m cladding diameter

Connector Type

FOCIS-compliant ST, SC, MT-RJ, and LC

Optical

Insertion loss:	0.2 dB typical
	0.4 dB maximum
Insertion loss increase after 500 mating cycles:	0.1 dB

Construction

Housing:	High impact thermoplastic, UL94V-0 fire retardant
Alignment sleeve:	Phosphor bronze

Mechanical

Alignment sleeve retention force:	200–600 gf
Mating cycle life:	min 500 cycles

Footprint

Standard keystone footprint

Mounting Dimensions

SC:	1.1"D x 0.76" H x 0.67" W 28 mm D x 19.3 mm H x 16.9 mm W
LC:	1" D x 0.76" H x 0.67" W 25 mm D x 19.3 mm H x 16.9 mm W
MT-RJ:	1.1" D x H 0.76" H x 0.67" W 28 mm D x 19.3 mm H x 16.9 mm W
ST:	1.2" D x 0.76" H x 0.67" W 30 mm D x 19.3 mm H x 16.9 mm W

Environmental Conditions

Storage temperature:	-40°C – +85°C (-40°F – +185°F)
Operating temperature:	-40°C – +85°C (-40°F – +185°F)
RH (operation):	Max non-condensing 93%

Compliance

ANSI/TIA-568-C.3, FOCIS, UL 94V-0

Fiber Optic Keystone Modules Specifications

Applications

FOIRL, 10BASE-FL, 10BASE-FB, 10BASE-SX, Token Ring 4/16, 100VG-Any LAN, 100BASE-FX, 100BASE-SX, FDDI, ATM 52/155/622, Fibre Channel 266/1062, 1000BASE-SX, 1000BASE-LX, 10GBASE-S, 10GBASE-L, 10GBASE-E, 10GBASE-LX4

Warranty

5-year limited component warranty

10-year Signamax Link/Channel Warranty

15-year Signamax Extended Component Warranty

25-year Signamax Cabling System Warranty