

国内首家！磁明科技率先批量交付 67G 高性能同轴开关，关键指标比肩国际品牌

2025 年 10 月 25 日——高端射频元器件国产化迎来标志性突破。

今日，苏州磁明科技有限公司正式宣布，其自主研发的 67GHz 同轴开关成功实现国内首次批量发货。此举不仅填补了国内该频段开关产品规模化供应的空白，更以其稳定性与核心性能指标全面对标国外一线品牌的硬实力，为下游产业提供了可靠的高端国产选择。

此次实现批量交付的 67G、1 切多路的产品，凝聚了磁明科技在射频领域超过十余年的“专精特新”技术积淀。作为国家级高新技术企业，江苏省级“专精特新”中小企业获得者。公司依托自身在射频电磁驱动机构、接触系统、微波仿真设计等核心环节拥有多项自主知识产权和专利技术，攻克了毫米波频段信号传输在插入损耗、隔离度及长期稳定性等方面的业界难题。产品基于成熟可靠的机械继电器架构，在确保卓越射频性能的同时，兼具高可靠性与快速响应能力。

该产品的成功量产与交付，直接服务于 5G/6G 研发、高端测试测量、卫星通信等前沿领域，打破了此前该频段高端开关由国际品牌厂商主导的局面。磁明科技凭借此次突破，不仅证明了其从技术追赶者到并行者的角色转变，更为国内高端电子产业链的自主可控与降本增效注入了强劲动力。

公司负责人表示，67G 产品的批量上市是公司创新战略的关键一步。未来，磁明科技将持续深耕高频技术，致力于成为全球领先的射

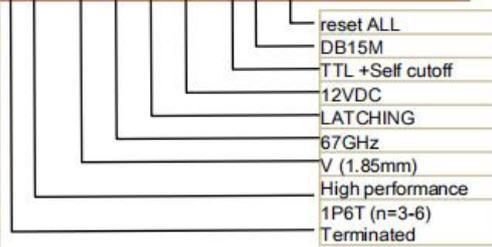
频开关解决方案提供商。和具有国际竞争力品牌。



MCF6Th-V67L12-3D-r

Date: 2026-02-05

Specifications	
Contact Material	Plated Au
Switching Sequence	Break before Make
Switching Time (max)	15msec
Impedance	50Ω
Temperature Range	-25°C to +65°C
Relative Humidity	5 to 85%
Operation Life (cycles)	3000000
Vibration Operating	10G RMS, 20-2000Hz
Mechanical Shock (non-operating)	50G, 1/2 Sine, 11msec
Weight (approx.)	240g



Frequency Range (GHz)	VSWR (max)	Insertion Loss (dB) (max)	Isolation (dB) (min)
DC-18	1.40	0.50	90
18-35	1.90	0.80	80
35-45	2.20	1.20	70
45-55	2.30	1.30	60
55-67	2.40	1.7	50

Voltage (VDC)		12	18	24	28
Current (mA)	Normally open	300	220	167	160
	Latching	350	240	180	160
	Latching (reset)	350*n	240*n	180*n	160*n

Example: MC□□□□□□□□□□

1. Product Type
 C1: Coaxial, 1P2T (SPDT)
 C2: Coaxial, 2P2T
 C3: Coaxial, 1P6T

2. Special Options
 Blank: Standard
 T: With termination
 H: High performance
 E: Extended temperature
 P: High power
 S-N: Number of throws in multi-throw configurations

3. Connector Type
 K: 2.92mm
 S: SMA
 N: N
 U: 2.4mm
 V: 1.85mm
 C: GC
 T: TNC
 R: 4.3-10
 D: D-18
 P: PCB-mount

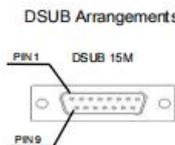
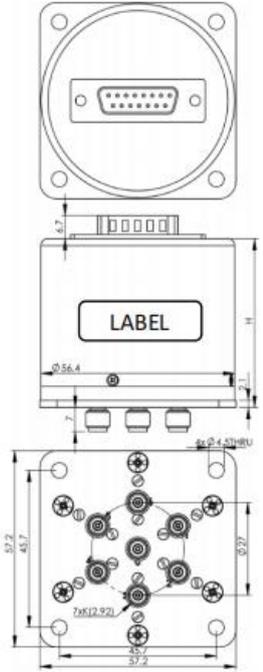
4. Frequency Range:
 12: DC to 12.4GHz
 18: DC to 18GHz
 28: DC to 28.5GHz
 40: DC to 40GHz
 50: DC to 50GHz
 67: DC to 67GHz

6. Other information
 Blank: No special options
 K: Indicators
 D: D' connector
 L: Low PIN
 P: Positive Common
 M: Moisture seal
 n: No mounting bracket for MCS-NCT
 w: short low profile option (MC1.3)
 r: auto reset
 R: reset ALL

7. Actuator Type:
 0: With suppression diodes
 No TTL self-cutoff
 1: TTL
 2: Self-cutoff only (for latching only)
 3: Self-cutoff and TTL (for latching only)
 4: No suppression diodes
 No TTL self-cutoff
 5: BCD
 6: USB

6. Rated Coil Voltage
 12, 18, 24, 28 V

5. Relay Function
 N: Normally Open
 L: Latching
 F: Fail-safe

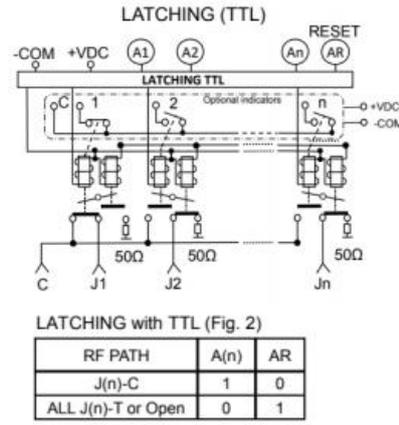


LATCHING TTL 15-PIN D-SUB PINOUT	
Pin No.	PINOUT
1	A1 (J1-COM)
2	A2 (J2-COM)
3	A3 (J3-COM)
4	A4 (J4-COM)
5	A5 (J5-COM)
6	A6 (J6-COM)
7	COM(-)
8	AR (Reset ALL OPEN)
9-14	UNUSED
15	+VDC

H = 61.1mm

1PnT PORT CONFIGURATIONS						
1PnT	Ports Used					
1P6T	1	2	3	4	5	6
1P5T	1	2	3	4	5	
1P4T	1	2		4	5	
1P3T	1		3		5	

Note: "Blank" represents the unused RF and corresponding control ports.



NOTE:
 (1) TTL logic input A(n): low "0" = 0.0V - 0.8V; high "1" = 2.4V - 5.5V.
 (2) +VDC/+VDCI=Rated voltage.

2025-10-26