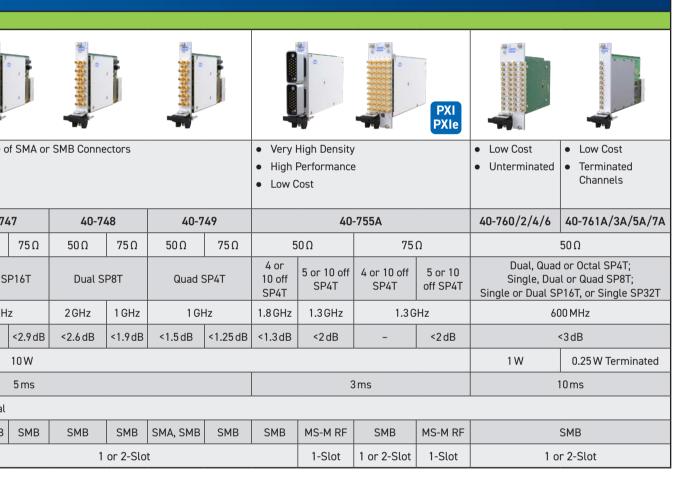


LXI ETHERNET RF & MICROWAVE MATRICES												LXI ETHERNET RF & MICROWAVE MULTIPLEXERS								
	Video Matrix	High Frequency Matrix	Wideband Matrix		RF Matrix - 1 GHz		RF Matrix - 2.4 GHz			Microwave	Matrix		Video MUX	RF MUX			Microwave MUX			
		PARARARA 0000000000000000000000000000000				बासस्वर अन्न अन्न के के के क्र	1. 2000000000000000000000000000000000000	1						12.2 2. 4						
				a second s	2		Laur					E. J. W.	High Performance Multiplexer Suitable for Video Switching	High Performance     12-Channel Multiplexer	High Performance 6-Channel Mul	plexer   High Performance	High Performance	<ul> <li>High Performance</li> <li>4-Channel Multiplexer</li> </ul>	High Performance     6-Channel Multiplexer	
Features	<ul> <li>Single or Dual 24x8 Matrix</li> <li>Suitable For Video Switching Applications</li> </ul>	<ul> <li>Single or Dual 24x8 Matrix</li> <li>50 MHz Bandwidth, Useable to 100 MHz</li> </ul>	<ul> <li>User Configurable For X and Y Dimensions</li> <li>Plug In As Many Cards As Required</li> </ul>	<ul> <li>High Bandwidth 75 Ω Matrix</li> <li>Useable to 1.5 GHz</li> </ul>			<ul> <li>High Bandwidth 50 Ω Matrix</li> <li>Y Axis Loop-Thru</li> </ul>			<ul> <li>Versatile Microwave Ma</li> <li>Loop-thru Option for Eas</li> </ul>	Ű	Features	<ul> <li>Applications</li> <li>Automatic Termination of Unused Inputs</li> </ul>	<ul> <li>1GHz Bandwidth</li> <li>Single or Dual Multiplexer Banks</li> </ul>	Terminated Versions Available	6-Channel Multiplexer	4-Channel Multiplexer	Terminated Versions Available	Low Loss High Isolation	
	Choice of RF Connectors	SMB or BNC RF Connectors	Built In Self-Test Checks all Relays	Automatic Termination of Unus	sed Inputs		Automatic Termination of Ur	nused Inputs		Internal Termination Opt		Model Family	60-721A	60-722	60-800	60-801	60-802	60-803	60-820	
Model Family	60-711	60-760	65-110A	60-730	60-731	60-732	60-770	60-771	60-772	60-750	60-751			_				4-Channel		
Configurations	Single or Dual 24x8 (software configurable)	Single or Dual 24x8 (software configurable)	RF matrix with sizes between 24x8 and 104x8 or between 16x16 and 104x16	32x16 terminated, 24x16 terminated,	32x8 terminated, 24x8 terminated, 16x8 terminated,	32x4 terminated, 24x4 terminated, 16x4 terminated,	32x16 terminated, 24x16 terminated, 16x16 terminated	32x8 terminated, 24x8 terminated, 16x8 terminated,	32x4 terminated, 24x4 terminated, 16x4 terminated,	Single or Dual 3x3, Single or Dual 4x4, Single 8x4, Optional Loop-thru and/or	Single 3x3, Single 4x4, Optional Loop-thru and/or	Configurations	24, 48, 72, 96, 120 or 144-Channel MUX with Terminations	Single or Dual 12-Channel MUX	6-Channel 6-Chan Unterminated MUX Terminate with up to 16 Banks with up to 1	MUX 6-Channel MUX	4-Channel MUX with up to 16 Banks	4-Channel Unterminated MUX with up to 16 Banks Banks	6 Channel MUX with up to 16 Banks	
				16x16 terminated	8x8 terminated	8x4 terminated		8x8 terminated	8x4 terminated	Terminations	Terminations	Impedance	75 Ω	75 Ω	50 Ω	50 Ω	50 Ω	50 Ω	75 Ω	
Impedance	75 Ω	50 Ω	50 Ω		75Ω			50 Ω				Frequency Range	1 GHz	1 GHz	18 GHz, 26.5 GHz, 40 GHz, 50 GHz or	7 GHz 6 GHz, 18 GHz	, 26.5 GHz or 40 GHz	18 GHz, 26.5 GHz, 40 GHz, 50 GHz or 67 GHz	2.5 GHz	
Frequency Range	DC to 25 MHz	DC to 50 MHz (useable to 100 MHz)	200 MHz Useable to 500 MHz		DC to 1 GHz (useable to 1.5 GHz)		DC to 2.4 GHz			DC to 10 GHz	DC to 18GHz	Insertion Loss	3.5 dB	1.3dB	0.5 dB (18 GHz), 1.7 dB (67 GH	) 0.2 dB	0.2 dB (up to 3 GHz)		0.3 dB	
Insertion Loss	<0.75 dB	<1 dB	<1 dB to 50 MHz		<2.5 dB		<2.5 dB			<2.5 dB	<3dB	VSWR	1.5:1	1.5:1	1.5:1 (18 GHz), 2.2:1 (67 GHz)	1.2:1	1.2:1 (up to 3 GHz)		1.3:1	
VSWR	<2.0:1	<1.8:1	<1.4:1		<1.8:1		<1.6:1			<1.8:1	<1.6:1	Max Power	0.5 W (limited by termination resistors)	400 W	100 W/1W per termination (18 GHz (67 GHz)	, 1 W 250 W	250 W (up to 3 GHz)		400 W (up to 2 GHz)	
Max Power	30 W	10W	0.25 W (limited by termination resistors)	0.1	25W (limited by termination resis	tors)	0.5	W (limited by termination resisto	rs)	100 W (1 W for termi		Typical Operate Time	5 ms	20 ms	18ms		13ms	18ms	 18ms	
Typical Operate Time	3 ms	3 ms	5 ms		3 ms			3 ms		18 m	5	Relay Type	Electro-mechanical	Microwave Relay	Microwave Relay	Micro	wave Relay	Microwave Relay	Microwave Relay	
Relay Type	Electro-mechanical	Electro-mechanical	Electro-mechanical		Electro-mechanical		Electro-mechanical			Microwave	Microwave Relay		E Time			0E CN44 en 6	, MA 2.0 ((0.011-)			
Connector Type	SMB, MCX or BNC	SMB or BNC	SMB		F-type			SMA		SMA		Connector Type	F-Type	F-Type			SMA or SMA-2.9 (40 GHz) SMA, SMA-2.9, SMA-2.4 or SM		DIN 1.6/5.6	
Enclosure Size	1U High, Full Rack Width, 340 mm Deep or 2U High, Full Rack Width, 500 mm Deep	1U High, Full Rack Width, 340mm Deep or 2U High, Full Rack Width, 500mm Deep	4U High, Full Rack Width, 500 mm Deep	6U High, Full Rack Width, 500mm Deep	3U High, Full Rack Width, 500 mm Deep	2U or 3U High, Full Rack Width, 500 mm Deep	6U High, Full Rack Width, 500mm Deep	3U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500mm Deep	2U High, Full Rack Wi	dth, 500 mm Deep	Enclosure Size	2U or 3U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500 mm Deep	2U or 3U High, Full Rack Widt 500 mm Deep	, 1U or 2U High, Full	Rack Width, 500 mm Deep	2U or 3U High, Full Rack Width, 500mm Deep	2U High, Full Rack Width, 500 mm Deep	



# Pickering - RF & Microwave Switching Map

									P	XIR	<b>F</b> SWITC	HFS					PXI MICR	OWAVE	SWITCHE	S	
				···· - · · · · · · · · · · · · · · · ·																	
PXIe Con	trollers	LXI ⊎SB <b>e</b> ≊	<b>LXI <del>USD</del>⊂</b> ∎	LXI Ethernet/USB Cha	assis	LXI <del>USB</del> ≪⊫		RF SPST Sw	PXI PXIe	PXI PXIe	PXI	RF SPDT Switch		PXI PXIe		PXI	SPDT 110 GHz PXI PXIe	Transfer Switch		PAT/SP6T PXIe	SP8T/SP10T/SP1:
nbedded ler roughput	<ul> <li>PCIe to P&gt; Control Interface I</li> </ul>	over an Ethern	4-Slot sis for hosting Picke et or USB connection	6-Slot ering's 3U PXI modules in a on	7-Slot an LXI environment, allow	18-Slot wing remote control	Features	<ul> <li>Up to 1 GHz</li> <li>SPDT Option</li> <li>Optional Har Interlock</li> </ul>	s Band	dwidth	High      Performance     Low Cost	Multiple Connector Options	<ul><li>High Density</li><li>High Performar</li><li>Low Cost</li></ul>	nce	Features		f closed switch paths _atching relays for 110GHz)	cables to up to 3 re Use less PXI chassi	mote relays	controller (2-slots for 40-788) be placed closer to the UUT a stem performance	
ougriput	• Daisy Cha						Model Family	40-753	40-8	880B	40-870A 40-830A	40-710	40-75	54A	Model Family	40-780B	40-781A 40-781A-92>	40-782B	40-784B	40-785C	40-788
t for	Option						Impedance	75Ω		50 Ω	75Ω	50 Ω 75 Ω	50 Ω	75Ω	Impedance	50 Ω 75 Ω			50 Ω		75 Ω 50 Ω
ity 20	43-921-001/ and Kits	002 60-104	60-105	60-106	60-102D	60-103D	Configurations	12 or 24 x SF 1 GHz	or Octa		Triple or Hex SPDT 3 GHz 2.7 GHz 1 GH	Quad SPDT	9 or 17 x 1.2 GHz 500 MHz		Configurations	Single, Dual, Triple or Quad SPDT	Single or Dual SPDT Terminated	Single or Dual Transfer Switch	Single, Dual or Triple SP4T & SP6T	Single, Dual or Trip SP4T & SP6T with Terminated Opti	with Terminated
			<u>                                     </u>				Max Frequency			GHz		Hz to 2.5 GHz 1GHz			Max Frequency	Up to 67 GHz 2.5 GHz	Up to 50 GHz 110 GHz	Up to 50 GHz	Up to 40 GHz		GHz Up to 26.5 GHz
		are compatible with the conforming to the 3U PXI					Insertion Loss	<3dB			<0.5 dB <0.9 dB	<3dB	<0.75dB <0.6dB	3 1db	Insertion Loss	<1.1dB	<0.5 dB <2.5 dB	<1.1 dB	<1.1dB	<1.7dB <0	.3 dB <1.1dB
		hybrid peripheral slots ir					Max Power	25 W		dBm		10 W			Max Power	Up to 700 W	1 W Terminated	Up to 240 W	Up to 150W	Up to 240 W	Up to 400 W
		terfaces LXI or LXI/USB					Typical Operate Time			Dµs	3 ms	10 ms	3 m	ns	Typical Operate Time	15 ms	10 ms 20 ms	15 ms	10 ms	15 ms	15 ms
3	U PXIe versio	<b>ns</b> of the modules are co	mpatible with the fo	llowing chassis types:			Relay Type	Electro-mecha	anical Solid	d State		Electro-mechanic	al		Relay Type				rowave Relay		
		conforming to the 3U PXI brid peripheral slots in a		(le) chassis			Connector Type	SMB, GMC		MA		BNC, SMB, BNC, SMZ, SMA 1.0/2.3, SME			Connector Type	N-type, SMA, SMA-2.9, SMA-2.4, SMA-1.8, 1.6/5	.6 2.9, SMA-2.4 SMA-1.0	SMA, SMA-2.9, SMA-2.4	SMA, SMA-2.9	N-type, SMA-2.9, SMA-2.4, SMA-1.8 1.4	
							Width (PXI-1, PXI-hyl	brid) 1 or 2-Slo	ot 1, 2 or	r 3-Slot	1-Slot	1 or 2-Slot	2-Slot 1-Slot	2-Slot 1-Slot	Width (PXI-1, PXI-hybrid)	1, 2 or 3-Slot	1 or 2-Slot	2-Slot	1 or 2-Slot	1, 3, 4 or 6-Slot	2, 3, 4 or 6-Slot
								RF Multiplexer													
	PX	e PXI PXIe	PX	e PXI PXIe	PXI	PXI PXIe	PXI PXIe	PXI PXIe		PXI PXIe						PXI PXIe				PXI PXIe	
	<ul> <li>8 GHz Band</li> <li>Terminated</li> <li>High Perfor</li> </ul>	Channels		<ul><li> 4 GHz</li><li>Fast Operation</li><li>Long Life</li></ul>	<ul><li> 3 GHz Bandwidth</li><li> High Performance</li></ul>	<ul> <li>3 GHz Bandwidth</li> <li>Terminated</li> </ul>	Terminated Com	<ul><li> 3GHz Bandwidth</li><li> High Performance</li><li> Low Cost</li></ul>			<ul> <li>Up to 2 GHz Bandwidth</li> <li>Choice of SMA or SMB Connectors</li> </ul>		r SMB Connectors		<ul><li>Very High Density</li><li>High Performance</li><li>Low Cost</li></ul>		Low Cost Unterminated Channels		es	& Fast Operation	<ul> <li>High Linearity &amp; True DC Coupling</li> </ul>
	(0.0010	(0.0000	(0.0000	Low Insertion Loss		(0.0724	(0.07/A		(0.075.4 (	0.0054			(0.7/0	(0.7/0		755 4		Model		41-182B	41-180
	40-881B	40-882B	40-883B	40-878	40-872A 40-832A	40-873A		40-874A 40-834A		0-835A	40-740 40-745 40		40-748	<b>40-749</b>			40-760/2/4/6 40-761A/3A/	Configu	urations	Solid State Programmable RF Attenuator	Programmable RF Attenuator
	Single or	Single, Dual, Triple	50Ω Single Singl	e Single, Dual	75Ω		50 Ω	75 Ω	50 Ω	75Ω	50 Ω or 75 Ω	50 Ω 75 Ω	50 Ω 75 Ω	50 Ω 75 Ω	/ or	75 Ω	50 Ω Dual, Quad or Octal SP4T;				
	Dual SP6T Terminated	or Quad SP4T Terminated Te	Single Singl SP8T SP16 erminated Termina	T or Quad 4:1 ated RF MUX	Single, Dual or Quad SP4T	Single or Dual SP4T Terminated	SP41 Terminated	Single or Dual SP8T	Single SP	P16T T	SP4T SP4T or I Terminated SP8T S		Dual SP8T	Quad SP4T	SP4T SP4T		Single, Dual or Quad SP8T Single or Dual SP16T, or Single	SP32T	r of Channels	3 or 6	1 or 2 DC to 3 GHz
		8 GHz		4 GHz			3 GHz		1		1GHz to 2GHz	1 GHz	2 GHz 1 GHz	1 GHz	1.8 GHz 1.3 GHz	1.3GHz	600 MHz		ney nunge		20103012
	<6.8 dB	<5 dB	<8 dB <9 dE	3 <1.4 dB 25 W	<1dB <1.6 dB	<1.5 dB	<1.3 dB	<1.2 dB <2.1dB	<1.3dB	<1.9dB	<3dB	<1.6 dB <2.9 dB	<2.6 dB <1.9 dB	3 <1.5 dB <1.25 d	dB <1.3dB <2dB	- <2 dB	<3 dB 1 W 0.25 W Term		um Attenuation	31.75 dB per channel	63 dB per channel
	+		-30 0011		10 00	i w renninated										mc	I		um Gain	-	
imo I		50µs		50 µs 3ms 5ms							3	ms	10 ms								
ime		Solid State MEMS								neutro-mechanical							ten Tune	SMA			
ime				MEMS			D MOV						CMD CMD				0115	Connec	ctor Type	SM	
ime	1 or 2-Slot	SMA	2-Slot 3-Slo			SM	B, MCX	1-Slot			SMA, SMB	SMA, SMB SMB	SMB SMB 1 or 2-Slo	SMA, SMB SMB		SMB MS-M RF 1 or 2-Slot 1-Slot	SMB 1 or 2-Slot		(PXI-1, PXI-hybrid)	1 or 2-Slot	1-Slot



Relay Counting - Many PXI(e) modules now feature relay operation counting to determine if a relay is approaching end of life (EOL). This information can be used to **reduce the load on heavily used relays**. Please refer to the specific module datasheet for more information.

# pickeringtest.com

## SWITCHING & SIMULATION SOLUTIONS FROM PICKERING INTERFACES

#### About Us

At Pickering, we understand that to design, deploy and sustain your test system can be challenging, and we believe in offering you the products and services to help your engineering team get the job done on time and budget. Since 1988, our core focus has and continues to be high-density modular switching and simulation systems for PXI, PCI, LXI and USB applications.

We offer the industry's deepest portfolio (over 1000 products in PXI alone), but the value doesn't end there. Take a look at the benefits of working with Pickering:

- When our product range doesn't fit your application, we have the agility and expertise needed to develop a system to your specifications, often with little to no engineering cost
- We can also help accelerate software development and test time by offering tools to help with your programming efforts. These include our Switch Path Manager signal routing software that simplifies coding of switching systems, and simulation tools that allow development to begin before your hardware is received.



#### **Reed Relays**

Pickering is the only switch provider with in-house reed relay manufacturing capability. These instrument grade reed relays feature **SoftCenter**™ technology, ensuring long service life and repeatable contact performance. In addition, most of our switch modules use through-hole technology relays (as opposed to surface mount) allowing easy replacement without the need for special tools. Learn more: **pickeringrelay.com** 

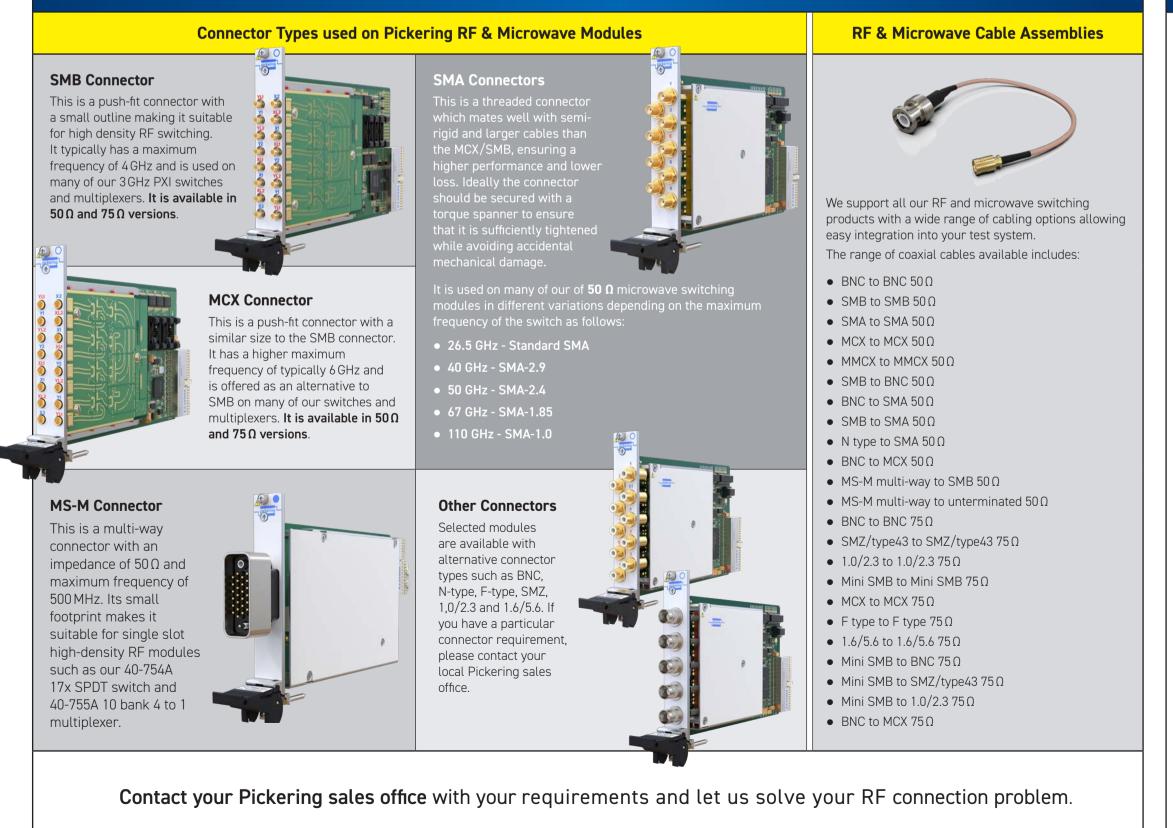


- We know that maximizing uptime of your test system is important—with our diagnostic test tools, you can identify faulty or damaged components in a matter of minutes. Many of our products include spare relays, so you can self-repair in the field without voiding our 3-year warranty.
- Our products have a history of longevity, typically 15–20 years, which is critical to many of our customers. All products manufactured by us come with a standard 3-year warranty\* and include guaranteed long-term support.
- Our technical staff can address any hardware or software problems you may encounter with Pickering Products. We have multiple offices located around the world and provide access to support engineers that have many years' experience in functional test and are committed to responding in a timely fashion.
- All module and cabling manufacturing processes are done within our two factories on flexible manufacturing lines allowing us to offer simple customization to meet your needs. The chances are good that we can enhance your engineering team's effectiveness with our collaborative, creative and agile culture.



Learn more: pickeringtest.com/whypickering Note\*: Currently the 110 GHz products come with a 1-year Warranty

## COMPREHENSIVE RANGE OF RF & MICROWAVE CONNECTORS & CABLES





# Pickering - RF & Microwave Switching Map

#### TURNKEY LXI ETHERNET MICROWAVE SWITCH AND SIGNAL ROUTING SUBSYSTEMS 60-891 Integrated Solutions

#### Do you have limited engineering resources or demand performance that can only be delivered with a fully integrated solution?

We have the expertise and ability to turn your high-level requirements for a microwave switching subsystem into the fully integrated solution that you need. You provide us with your unique configuration and specification, and our engineers will work closely with you to provide a well-defined, fully integrated and supportable end product that will satisfy your microwave testing needs.

- Designed and manufactured to your requirements by our switching experts
- **Compact rack-mount designs** incorporating an industry-standard LXI/Ethernet interface
- **Bandwidths from DC to 110 GHz @ 50 Ω**, with terminated or unterminated options, and bandwidths up to 2.5 GHz @ 75  $\Omega$
- **Fast turnaround**, cost-effective Multiplexer, Matrix and complex routing solutions
- **Fully documented** to ensure performance repeatability in subsequent builds/orders
- **Familiar programming environment** using Pickering's standard switch API accelerates software integration
- Pickering can turn your custom-design into an 'off-the-shelf' product with **15+ years** support

For complex subsystems, our **Switch Path Manager** signal routing software can be used to significantly reduce integration time. Another important tool we offer is the **LXI hardware simulator**, this tool allows you to develop and test the system software independently from your application hardware.

Visit **pickeringtest.com/turnkey** to learn more.



12x12 Microwave Matrix

### **FLEXIBLE PXI & LXI ETHERNET MICROWAVE SWITCH PLATFORMS**

These flexible, configurable PXI & LXI microwave switch platforms may be specified with a mix of high-performance microwave relays up to **110 GHz bandwidth** with **50**  $\Omega$  impedance or up to **2.5 GHz** with **75**  $\Omega$  impedance and with a range of connector types.

- Available relays include Transfer, SPDT, SP4T, SP6T, SP8T, SP10T and SP12T in unterminated and terminated versions
- Flexibility in front-panel relay positioning helps minimize external interconnecting cable lengths
- **LED indication** of energized switch paths
- PXI & PXIe available in 1 to 6 slot wide modules
- LXI up to 6U form factors
- Excellent RF and repeatability characteristics



Examples of PXI & LXI Flexible Microwave Switch Platforms Visit **pickeringtest.com/flexible** 

		Bandwidth & Connector Type												
Switch Type	Termination	2.5 GHz	3 GHz	6 GHz	8 GHz	12.4 GHz	18 GHz	22 GHz	26.5 GHz	40 GHz	50 GHz	67 GHz	110 GHz	
Switch Type	Termination	DIN 1.6/5.6	SMA	SMA	N-Type	N-Type	SMA	SMA	SMA	SMA 2.9	SMA 2.4	SMA 1.85	SMA 1.0	
		(75 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	(50 Ω)	
Transfer (DPDT)		~	~				~		<b>v</b>	<ul> <li>✓</li> </ul>	~			
SPDT		~				~	~		<ul> <li>✓</li> </ul>	~	~	<ul> <li>✓</li> </ul>		
SP4T	Unterminated	~		~		~	~		~	~	<b>v</b>	<b>v</b>		
SP6T		~		~		~	~		~	~	~	~		
SP8T					~		~		~					
SP10T					~		~	~						
SP12T					~		~							
SPDT							~		~	~	~		~	
SP4T	Terminated					~	~		~	~	<b>v</b>	<b>v</b>		
SP6T						~	~		~	~	~	<b>v</b>		
SP8T							~		~					
SP10T							~	~						
SP12T							~							

Non-switching Components

To maximize system flexibility other component types/specifications can be supplied upon request.

### **MICROWAVE SWITCH DESIGN TOOL**

Configuring powerful and flexible PXI & LXI microwave switching products has never been easier than with our new Microwave Switch Design Tool. This free online tool greatly simplifies the configuration of your <u>flexible microwave switching</u> and relay systems for signal routing applications across 5G, wireless & telecommunications, semiconductor, medical, aerospace and defense.

#### Features of our Microwave Switch Design Tool include:

- Engineers can easily design a complete industry-standard, PXI or LXI Microwave switching system
- PXI/PXIe is available in 1 to 6 slot wide modules
- LXI is available in up to 6U form factors
- Specify and configure a mix of high-performance microwave relays • Relays range up to 110 GHz bandwidth at 50  $\Omega$  impedance or up to
- 2.5 GHz at 75  $\Omega$  impedance and include transfer, SPDT, SP4T, SP6T, SP8T, SP10T and SP12T in terminated and unterminated versions
- Large range of connector types and complete flexibility on placement to help minimize external cable lengths
- Custom labeling and front-panel graphics
- Generate all the necessary documentation and quote your unique part number within the tool
- Excellent RF and repeatability characteristics

## -\_\_pickering --- RF & Microwave Switching Map

#### **Example Turnkey Microwave Switching Systems**

SP36T Microwave Multiplexer

#### Microwave Switch Options

To provide functionality in addition to switching, we also offer power dividers, attenuators, couplers and terminations.

- Low VSWR (Voltage Standing Wave Ratio), very high isolation, low loss and high power handling
- Ideal for switching coaxial systems that require high performance from the HF band to microwave frequencies



To learn more or give the tool a try, go to: pickeringtest.com/msdt





## -\_\_\_pickering --\_ **RF & Microwave** Switching Map

#### What to expect when you **engage** with **Pickering** for your **RF/Microwave** switching

Defining your signal routing and distribution systems can be challenging. Work with an experienced global supplier who possesses the necessary skills to complete the task within the agreed timeline and budget. When you work with us, you get the following

- **Direct collaboration** with our engineers during the design phase
- **Optimized solutions** tailored to your high-level requirements
- A fully documented end product
- Platform and component flexibility to meet your specific needs
- Whether you need one or 20 systems, our process treats them all the same



Switching | Simulation | Programmable Resistors | Custom Design | Software | Reed Relays | Connectivity & Cables

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