



PLANAR MONOLITHICS INDUSTRIES, INC.

A TRADITION OF EXCELLENCE SINCE 1989
ISO9001-2000 CERTIFIED

Computer Controlled, Solid State RF Switch Matrices

PMI has developed a full product line of RF Switch Matrices that operate over the 20MHz to 40GHz frequency range. Three standard models are offered that cover this frequency range, namely 20MHz to 3.0GHz, 2.0GHz to 18.0GHz, and 18.0GHz to 40.0GHz. Any of the three models can be supplied as either a 4 X 4, 8 X 8, 16 X 16, or 32 X 32 non-blocking matrix.

All models offer switching control via TTL, RS232, RS422/485, Ethernet and via the front panel touch screen LCD. All units are supplied in a ruggedized 6U, 19" Chassis.



Model No. SM-20M3G (20MHz to 3.0GHz)

4 X 4	8 X 8	16 X 16	32 X 32
Insertion Loss:.....10dB	Insertion Loss:.....14dB	Insertion Loss:.....16dB	Insertion Loss:.....19dB
Isolation:.....60dB	Isolation:.....60dB	Isolation:.....60dB	Isolation:.....60dB
IP2:.....55dB	IP2:.....55dB	IP2:.....55dB	IP2:.....55dB
IP3:.....45dB	IP3:.....45dB	IP3:.....45dB	IP3:.....45dB
Switching Speed:....100nsec	Switching Speed:....100nsec	Switching Speed:....100nsec	Switching Speed:....100nsec
VSWR:.....2.0:1	VSWR:.....2.0:1	VSWR:.....2.0:1	VSWR:.....2.0:1
Input Power:.....+20dBm CW	Input Power:.....+20dBm CW	Input Power:.....+20dBm CW	Input Power:.....+20dBm CW

Model No. SM-2G18G (2.0GHz to 18.0GHz)

4 X 4	8 X 8	16 X 16	32 X 32
Insertion Loss:.....14dB	Insertion Loss:.....16dB	Insertion Loss:.....19dB	Insertion Loss:.....23dB
Isolation:.....60dB	Isolation:.....60dB	Isolation:.....60dB	Isolation:.....60dB
IP2:.....55dB	IP2:.....55dB	IP2:.....55dB	IP2:.....55dB
IP3:.....45dB	IP3:.....45dB	IP3:.....45dB	IP3:.....45dB
Switching Speed:....100nsec	Switching Speed:....100nsec	Switching Speed:....100nsec	Switching Speed:....100nsec
VSWR:.....2.0:1	VSWR:.....2.0:1	VSWR:.....2.0:1	VSWR:.....2.0:1
Input Power:.....+20dBm CW	Input Power:.....+20dBm CW	Input Power:.....+20dBm CW	Input Power:.....+20dBm CW

Model No. SM-18G40G (18.0GHz to 40.0GHz)

4 X 4	8 X 8	16 X 16	32 X 32
Insertion Loss:.....16dB	Insertion Loss:.....18dB	Insertion Loss:.....22dB	Insertion Loss:.....25dB
Isolation:.....60dB	Isolation:.....60dB	Isolation:.....60dB	Isolation:.....60dB
IP2:.....55dB	IP2:.....55dB	IP2:.....55dB	IP2:.....55dB
IP3:.....45dB	IP3:.....45dB	IP3:.....45dB	IP3:.....45dB
Switching Speed:....100nsec	Switching Speed:....100nsec	Switching Speed:....100nsec	Switching Speed:....100nsec
VSWR:.....2.0:1	VSWR:.....2.0:1	VSWR:.....2.0:1	VSWR:.....2.0:1
Input Power:.....+20dBm CW	Input Power:.....+20dBm CW	Input Power:.....+20dBm CW	Input Power:.....+20dBm CW

Available Options:

ZL - Zero Insertion Loss

LV - Low Video Transients

HI - Higher Isolation

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*Specifications are typical