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PRODUCT GUIDE
PIN Diode Switches

Broad Selection of Ready-to-Ship PIN Diode Switches

Fairview Microwave's 50-ohm PIN diode switches offer designers a wide selection of models and options including broadband frequency coverage up to 67 GHz, SPST through SP12T configurations, as well as reflective and absorptive switch design options. All PIN diode switch models offer low insertion loss, fast switching speeds and high isolation levels. These PIN diode switches feature compact coaxial packages, with field replaceable SMA connectors on most models. Select millimeter-wave designs are available in waveguide package outlines. These rugged switch designs are highly reliable and meet a series of military standard environmental test conditions.

Fairview's high-performance PIN diode switches can be viewed online at www.fairviewmicrowave.com with real-time inventory, pricing, and detailed datasheets that include typical performance graphs and CAD drawings. Our application engineers are available to answer any of your technical questions and can assist you with selecting the right product for your application.















PIN Diode Switches

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PIN Diode Switches



SPST

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2008 	Absorptive	50 MHz - 26.5	30	5	150	0.5	Solder Pin	SMA Female	No	1.2 x 1.2 x 0.6	EAR99
FMSW2012 	Absorptive	50 MHz - 40	25	7.5	150	1	Solder Pin	2.92mm Female	No	1.2 x 1.2 x 0.6	EAR99
FMSW2024 	Absorptive	50 MHz - 67	25	9.5	150	0.5	Solder Pin	1.85mm Female	No	1 x 1 x 0.5	EAR99
FMSW6209 	Absorptive	500 MHz - 18	55	3.5	100	0.1	Solder Pin	SMA Female	Yes	1.2 x 0.9 x 0.35	EAR99
FMSW6214 	Absorptive	500 MHz - 40	55	5.5	100	0.1	Solder Pin	2.92mm Female	Yes	1 x 1 x 0.5	EAR99
FMSW6231 	Absorptive	1 - 2	80	0.9	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6236 	Absorptive	1 - 18	65	3	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6232 	Absorptive	2 - 4	75	1.1	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW2016 	Absorptive	2 - 26.5	25	4.5	150	1	Solder Pin	SMA Female	No	1.2 x 1.2 x 0.6	EAR99
FMSW2020 	Absorptive	2 - 40	30	5	150	1	Solder Pin	2.92mm Female	No	1.2 x 1.2 x 0.6	EAR99
FMSW6233 	Absorptive	4 - 8	75	1.8	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6234 	Absorptive	8 - 12	70	1.8	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6235 	Absorptive	12 - 18	65	2.8	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6258 	Reflective	10 MHz - 1	80	1	200	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW2007 	Reflective	50 MHz - 26.5	20	5	150	1	Solder Pin	SMA Female	No	1.2 x 1.2 x 0.6	EAR99
















SPST Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2011 	Reflective	50 MHz - 40	25	6.5	150	1	Solder Pin	2.92mm Female	No	1.2 x 1.2 x 0.6	EAR99
FMSW2023 	Reflective	50 MHz - 67	20	8.5	150	0.5	Solder Pin	1.85mm Female	No	1 x 1 x 0.5	EAR99
FMSW6220 	Reflective	500 MHz - 18	55	3	100	0.1	Solder Pin	SMA Female	Yes	1.2 x 0.9 x 0.35	EAR99
FMSW6225 	Reflective	500 MHz - 40	55	5	100	0.1	Solder Pin	2.92mm Female	Yes	1 x 1 x 0.5	EAR99
FMSW6259 	Reflective	1 - 2	80	0.75	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6260 	Reflective	2 - 4	75	0.85	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW2015 	Reflective	2 - 26.5	20	4.5	150	1	Solder Pin	SMA Female	No	1.2 x 1.5 x 0.6	EAR99
FMSW2019 	Reflective	2 - 40	20	4	150	1	Solder Pin	2.92mm Female	No	1.2 x 1.2 x 0.6	EAR99
FMSW6261 	Reflective	4 - 8	75	1.5	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6262 	Reflective	8 - 12	70	1.8	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
FMSW6263 	Reflective	12 - 18	65	2.5	50	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.5	EAR99
















SPDT

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW8007 		10 MHz - 1	40	0.75	40,000		Solder Pin	SMA Female	No		EAR99
FMSW8004 		100 MHz - 500 MHz	55	0.5	40,000		Solder Pin	N Female	No		EAR99















SPDT Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW8008 		500 MHz - 3	55	1.25	10,000		Solder Pin	SMA Female	No		EAR99
FMSW8006 		800 MHz - 3					Solder Pin	SMA Female	No		EAR99
FMSW8005 		960 MHz - 1.3	40	0.75	10,000		Solder Pin	N Female	No		EAR99
FMSW2043 	Absorptive	5 MHz - 2.15	70	2.5	100,000	0.1	D-Sub	F Female	No	2 x 2 x 1.19	EAR99
FMSW2036 	Absorptive	5 MHz - 3	80	3.5	10,000	1	D-Sub	SMA Female	No	2 x 2 x 1.19	EAR99
FMSW6237 	Absorptive	10 MHz - 1	80	1.3	200	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW2035 	Absorptive	20 MHz - 4.3	80	3	10,000	1	D-Sub	SMA Female	No	2 x 2 x 1.19	EAR99
FMSW8009 	Absorptive	20 MHz - 6	55	2.5			Solder Pin	SMA Female	No		EAR99
FMSW2010 	Absorptive	70 MHz - 26.5	55	5	100	0.5	SMA Female	SMA Female	No	1 x 1.2 x 0.6	EAR99
FMSW2014 	Absorptive	70 MHz - 40	55	7	100	0.5	2.92mm Female	2.92mm Female	No	1 x 1.2 x 0.6	EAR99
FMSW2050 	Absorptive	100 MHz - 67	40	10.5	100	0.5	SMA Female	1.85mm Female	No	1.2 x 1 x 0.5	EAR99
FMSW6210 	Absorptive	500 MHz - 18	55	3.75	100	0.1	Solder Pin	SMA Female	Yes	1.2 x 0.9 x 0.35	EAR99
FMSW6215 	Absorptive	500 MHz - 40	60	6	50	0.1	Solder Pin	2.92mm Female	Yes	1 x 1 x 0.5	EAR99
FMSW2041 	Absorptive	800 MHz - 2.7	75	0.8	10,000	100	Solder Pin	SMA Female	No	3 x 2.75 x 1	EAR99
FMSW6241 	Absorptive	1 - 18	65	3.5	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
















SPDT Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW6208 	Absorptive	2 - 4	75	1.2	100	0.5	Pin	SMA Female	Yes	1.2 x 0.9 x 0.35	EAR99
FMSW2018 	Absorptive	2 - 26.5	60	4	100	0.5	SMA Female	SMA Female	No	1 x 1.2 x 0.6	EAR99
FMSW2022 	Absorptive	2 - 40	55	5.5	100	0.5	2.92mm Female	2.92mm Female	No	1 x 1.2 x 0.6	EAR99
FMSW6238 	Absorptive	4 - 8	70	1.9	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW6239 	Absorptive	8 - 12	70	2.2	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW6240 	Absorptive	12 - 18	70	3.5	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW1100 	Reflective	DC - 6	25	1.3	100	40		SMA Female	No	0 x 0 x 0	EAR99
FMSW1105 	Reflective	DC - 6	25	1.3	100	40		SMA Female	No	0 x 0 x 0	EAR99
FMSW1101 	Reflective	DC - 12	25	2	150	25		SMA Female	No	0 x 0 x 0	EAR99
FMSW1106 	Reflective	DC - 12	25	2	150	25		SMA Female	No	0 x 0 x 0	EAR99
FMSW1102 	Reflective	DC - 18	23	2.3	100	10		SMA Female	No	0 x 0 x 0	EAR99
FMSW1107 	Reflective	DC - 18	23	2.3	100	10		SMA Female	No	0 x 0 x 0	EAR99
FMSW6265 	Reflective	10 MHz - 1	80	1.1	200	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW2039 	Reflective	20 MHz - 500 MHz	50	0.5	40,000	150	Solder Pin	SMA Female	No	3 x 2.75 x 1	EAR99
FMSW2040 	Reflective	20 MHz - 1	40	0.75	40,000	150	Solder Pin	SMA Female	No	3 x 2.75 x 1	EAR99



SPDT Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2042 	Reflective	20 MHz - 2.5	50	1	10,000	25	Solder Pin	SMA Female	No	3 x 2.75 x 1	EAR99
FMSW2047 	Reflective	30 MHz - 530 MHz	60	1	200	5	Solder Pin	SMA Female	No	1.25 x 1.25 x 0.563	EAR99
FMSW2048 	Reflective	50 MHz - 1.5	60	1	200	4	Solder Pin	SMA Female	No	1.25 x 1.25 x 0.563	EAR99
FMSW2009 	Reflective	70 MHz - 26.5	30	3.5	100	0.5	SMA Female	SMA Female	No	1 x 1.2 x 0.6	EAR99
FMSW2013 	Reflective	70 MHz - 40	30	5.5	100	0.5	2.92mm Female	2.92mm Female	No	1 x 1.2 x 0.6	EAR99
FMSW2038 	Reflective	100 MHz - 500 MHz	55	0.5	40,000	250	Solder Pin	SMA Female	No	3 x 2.75 x 1	EAR99
FMSW1103 	Reflective	500 MHz - 6	35	1.5	250	100		N Female	No	0 x 0 x 0	EAR99
FMSW1108 	Reflective	500 MHz - 6	35	1.5	250	100		N Female	No	0 x 0 x 0	EAR99
FMSW6221 	Reflective	500 MHz - 18	55	3.2	100	0.1	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6226 	Reflective	500 MHz - 40	55	5.5	50	0.1	Solder Pin	2.92mm Female	Yes	1 x 1 x 0.5	EAR99
FMSW6269 	Reflective	1 - 18	65	2.5	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW6219 	Reflective	2 - 4	75	0.9	100	1	Solder Pin	SMA Female	Yes	1.2 x 0.9 x 0.35	EAR99
FMSW2017 	Reflective	2 - 26.5	30	3	100	1	SMA Female	SMA Female	No	1 x 1.2 x 0.6	EAR99
FMSW6266 	Reflective	4 - 8	70	1.6	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99
FMSW6267 	Reflective	8 - 12	70	1.9	100	0.1	Solder Pin	SMA Female	Yes	1 x 1 x 0.4	EAR99












SP3T

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW6242 	Absorptive	10 MHz - 1	60	1.4	200	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6211 	Absorptive	500 MHz - 18	55	3.8	100	0.1	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6216 	Absorptive	500 MHz - 40	55	6	50	0.1	Solder Pin	2.92mm Female	Yes	1 x 1 x 0.5	EAR99
FMSW6248 	Absorptive	1 - 18	65	3.75	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6244 	Absorptive	2 - 4	75	1.5	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6245 	Absorptive	4 - 8	75	2.5	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6246 	Absorptive	8 - 12	70	2.8	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6247 	Absorptive	12 - 18	70	3.75	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6270 	Reflective	10 MHz - 1	60	1	200	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6222 	Reflective	500 MHz - 18	55	3.2	100	0.1	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6227 	Reflective	500 MHz - 40	55	5.5	50	0.1	Solder Pin	2.92mm Female	Yes	1 x 1 x 0.5	EAR99
FMSW6271 	Reflective	1 - 2	60	1	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6276 	Reflective	1 - 18	65	2.75	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6272 	Reflective	2 - 4	75	1.2	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6273 	Reflective	4 - 8	75	2	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99

SP3T Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW6274 	Reflective	8 - 12	70	2.4	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99
FMSW6275 	Reflective	12 - 18	70	2.75	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.4	EAR99


SP4T

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW8003 		30 MHz - 512 MHz	50	0.75			Solder Pin	N Female	No		EAR99
FMSW2044 	Absorptive	5 MHz - 2.15	70	2.5	100,000	0.1	D-Sub	F Female	No	3.5 x 2.5 x 1.19	EAR99
FMSW2037 	Absorptive	5 MHz - 3		3.5	10,000	1	D-Sub	SMA Female	No	3.5 x 2.5 x 1.19	EAR99
FMSW6249 	Absorptive	10 MHz - 1	60	1.5	200	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6212 	Absorptive	500 MHz - 18	55	3.8	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.6	EAR99
FMSW6217 	Absorptive	500 MHz - 40	60	8	50	0.1	Solder Pin	2.92mm Female	Yes	2.75 x 1.5 x 0.4	EAR99
FMSW6250 	Absorptive	1 - 2	60	1.2	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6255 	Absorptive	1 - 18	70	3.75	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6251 	Absorptive	2 - 4	75	1.5	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6252 	Absorptive	4 - 8	70	2.2	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6253 	Absorptive	8 - 12	70	2.6	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99


SP4T Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW6254 	Absorptive	12 - 18	70	3.75	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW1104 	Reflective	DC - 6	25	2	100	40		SMA Female	No	1.97 x 1.97 x 0.37	EAR99
FMSW1109 	Reflective	DC - 6	25	2	100	40		SMA Female	No	0 x 0 x 0	EAR99
FMSW6277 	Reflective	10 MHz - 1	60	1.2	200	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6223 	Reflective	500 MHz - 18	55	3.2	100	0.1	Solder Pin	SMA Female	Yes	1.5 x 1.5 x 0.6	EAR99
FMSW6228 	Reflective	500 MHz - 40	55	7.5	50	0.1	Solder Pin	2.92mm Female	Yes	2 x 1 x 0.4	EAR99
FMSW6278 	Reflective	1 - 2	60	1	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6279 	Reflective	2 - 4	75	1.1	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6284 	Reflective	2 - 6	70	2	50	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6280 	Reflective	4 - 8	70	1.8	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6285 	Reflective	6 - 12	70	2.5	50	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6281 	Reflective	8 - 12	70	2.2	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99
FMSW6282 	Reflective	12 - 18	70	3	100	0.1	Solder Pin	SMA Female	Yes	1.25 x 1.25 x 0.4	EAR99






SP5T

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2045 	Absorptive	100 MHz - 20	65	3.9	75	0.5	Solder Pin	SMA Female	No	1.34 x 1.34 x 0.45	EAR99


SP6T

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2046 	Absorptive	100 MHz - 20	65	4.2	75	0.5	Solder Pin	SMA Female	No	1.34 x 1.34 x 0.45	EAR99








SP8T

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2033 	Absorptive	100 MHz - 20	65	6	100	0.5	Solder Pin	SMA Female	No	4 x 0.96 x 0.35	EAR99
FMSW6213 	Absorptive	500 MHz - 18	55	4.5	50	0.1	Solder Pin	SMA Female	Yes	4 x 1.5 x 0.4	EAR99
FMSW6218 	Absorptive	500 MHz - 40	50	10	50	0.1	Solder Pin	2.92mm Female	Yes	4 x 1.5 x 0.4	EAR99
FMSW6224 	Reflective	500 MHz - 18	55	4	100	0.1	Solder Pin	SMA Female	Yes	4 x 1.5 x 0.4	EAR99
FMSW6229 	Reflective	500 MHz - 40	45	9	50	0.1	Solder Pin	2.92mm Female	Yes	4 x 1.5 x 0.4	EAR99







SP12T

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW2034 	Absorptive	100 MHz - 20	65	6	100	0.5	Solder Pin	SMA Female	No	3.04 x 1.11 x 0.35	EAR99


Transfer

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (CW) (Watts)	TTL Control	Connector Type	Field Replaceable	Mechanical Dimensions L(in) x W(in) x H(in)	ECCN
FMSW6286 	Absorptive	10 MHz - 1	80	1.3	100	2	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6287 	Absorptive	1 - 2	80	1	100	1	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6292 	Absorptive	1 - 18	65	3.1	100	0.5	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6288 	Absorptive	2 - 4	75	1.2	100	1	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6289 	Absorptive	4 - 8	75	1.9	100	1	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6290 	Absorptive	8 - 12	70	2.2	100	0.5	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99
FMSW6291 	Absorptive	12 - 18	65	3	100	0.5	Solder Pin	SMA Female	Yes	1.2 x 1.2 x 0.5	EAR99



High Isolation PIN Diode Switches

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (Watts)	TTL Control	Connector Type	ECCN
FMSW5001 	SPST	0 - 20	65	6	8.5	23	Solder Pin	SMA Female	EAR99
FMSW5005 	SPDT	0 - 18	65	3	12	27	Solder Pin	SMA Female	EAR99
FMSW5000 	SPDT	0 - 20	35	4	5	23	Solder Pin	SMA Female	EAR99
SDS-0102-SPDT-SMA 	SPDT	1 - 2	90	1	75	32	Solder Terminals	SMA Female	EAR99
FMSW5006 	SP4T	0 - 20	38	3.8		24	Solder Pin	SMA Female	EAR99
SDS-0206-SP4T-SMA 	SP4T	2 - 6	80	1.8	35	27	Solder Terminals	SMA Female	EAR99





High Isolation PIN Diode Switches Continued

FM P/N	Switch Design	Frequency (GHz)	Typical Isolation (dB)	Typical Insertion Loss (dB)	Typical Switching Time (ns)	Max RF Input Power (Watts)	TTL Control	Connector Type	ECCN
SDS-0612-SP4T-SMA 	SP4T	6 - 12	75	2.5	40	27	Solder Terminals	SMA Female	EAR99

High Isolation USB Controlled PIN Diode Switches

FM P/N	Switch Type	Switch Design	Frequency Band (GHz)	Insertion Loss (dB)	Isolation (dB)	Power Handling (dBm)	Mechanical Dimensions L(in) x W(in) x H(in)	Connector	ECCN
SDUS-0518-SPDT-SMA 	USB 2.0	SPDT	500 MHz - 18	6	60	20	2.25 x 1 x 0.33	SMA Female	EAR99
SDUS-0540-SPDT-K 	USB 2.0	SPDT	500 MHz - 40	6	60	20	2.25 x 1 x 0.33	2.92mm Female	EAR99

Waveguide PIN Diode Switches

FM P/N	Waveguide Type	Switch Type	RF Frequency Range (GHz)	Insertion Loss (dB)	Maximum Isolation (dB)	Maximum Switching Time (ns)	Flange Type	Control Connector	ECCN
FMSW9003 	WR-10	Reflective/SPST	75 - 110	5.5	20	300	Round Cover UG-387/U	SMA Female	EAR99
FMSW9004 	WR-10	Reflective/SPDT	75 - 110	7	20	300	Round Cover UG-387/U	SMA Female	EAR99
FMSW9001 	WR-12	Reflective/SPST	60 - 90	4.5	20	300	Round Cover UG-387/U	SMA Female	EAR99
FMSW9002 	WR-12	Reflective/SPDT	60 - 90	6	20	300	Round Cover UG-387/U	SMA Female	EAR99

dBm - volts- watts Conversion Table (50-ohm system)

dBm	V	Po	dBm	V	Po	dBm	mV	Po	dBm	µV	Po
+53	100.0	200W	+2	0.28	1.6 mW	-46	1.18		-94	4.5	
+50	70.7	100W	+1	0.25	1.25 mW	-47	1.0		-95	4.0	
+49	64.0	80W	0	0.23	1.0 mW	-48	0.9		-96	3.51	
+48	58.0	64W	-1	0.20	.80 mW	-49	0.8		-97	3.2	
+47	50.0	50W	-2	0.18	.64 mW	-50	0.71	.01 µW	-98	2.9	
+46	44.5	40W	-3	0.16	.50 mW	-51	0.64		-99	2.51	
+45	40.0	32W	-4	0.14	.40 mW	-52	0.57		-100	2.25	.1 pW
+44	32.5	25W	-5	0.13	.32 mW	-53	0.5		-101	2.0	
+43	32.0	20W	-6	0.12	.25 mW	-54	0.45		-102	1.8	
+42	28.0	16W	-7	0.10	.20 mW	-55	0.4		-103	1.6	
+41	26.2	12.5W	-8	0.09	.16 mW	-56	0.351		-104	1.41	
+40	22.5	10W	-9	0.08	.125 mW	-57	0.32		-105	1.27	
+39	20.0	8W	-10	0.07	.10 mW	-58	0.286		-106	1.18	
+38	18.0	6.4W	-11	0.06		-59	0.251		dBm	nV	Po
+37	16.0	5W	-12	0.06		-60	0.225	.001 µW	-107	1000	
+36	14.1	4W	-13	0.05		-61	0.2		-108	900	
+35	12.5	3.2W	-14	0.05		-62	0.18		-109	800	
+34	11.5	2.5W	-15	0.04		-63	0.16		-110	710	.01 pW
+33	10.0	2W	-16	0.0355		-64	0.141		-109	640	
+32	9.0	1.6W	dBm	mV	Po	dBm	µV	Po	-112	580	
+31	8.0	1.25W	-17	31.5		-65	128		-113	500	
+30	7.10	1.0W	-18	28.5		-66	115		-114	450	
+29	6.40	800 mW	-19	25.1		-67	100		-115	400	
+28	5.80	640 mW	-20	22.5	.01 mW	-68	90		-116	355	
+27	5.00	500 mW	-21	20.0		-69	80		-117	825	
+26	4.45	400 mW	-22	17.9		-70	71	.1 nW	-118	285	
+25	4.00	320 mW	-23	15.9		-71	65		-119	251	
+24	3.55	250 mW	-24	14.1		-72	58		-120	225	.001 pW
+23	3.20	200 mW	-25	12.8		-73	50		-121	200	
+22	2.80	160 mW	-26	11.5		-74	45		-122	180	
+21	2.52	125 mW	-27	10.0		-75	40		-123	160	
+20	2.25	100 mW	-28	8.9		-76	35		-124	141	
+19	2.00	80 mW	-29	8.0		-77	32		-125	128	
+18	1.80	64 mW	-30	7.1	.001 mW	-78	29		-126	117	
+17	1.60	50 mW	-31	6.25		-79	25		-127	100	
+16	1.41	40 mW	-32	5.8		-80	22.5	.01 nW	-128	90	
+15	1.25	32 mW	-33	5.0		-81	20		-129	80	
+14	1.15	25 mW	-34	4.5		-82	18		-130	71	.1 fW
+13	1.00	20 mW	-35	4.0		-83	16		-131	61	
+12	0.90	16 mW	-36	3.5		-84	11.1		-132	58	
+11	0.80	12.5 mW	-37	3.2		-85	12.9		-133	50	
+10	0.71	10 mW	-38	2.85		-86	11.5		-134	45	
+9	0.64	8 mW	-39	2.5		-87	10.0		-135	40	
+8	0.58	6.4 mW	-40	2.25	.1 µW	-88	9.0		-136	35	
+7	0.50	5 mW	-41	2.0		-89	8.0		-137	33	
+6	0.45	4 mW	-42	1.8		-90	7.1	.001 nW	-138	29	
+5	0.40	3.2 mW	-43	1.6		-91	6.1		-139	25	
+4	0.36	2.5 mW	-44	1.4		-92	5.75		-140	23	.01 fW
+3	0.32	2.0 mW	-45	1.25		-93	5.0				

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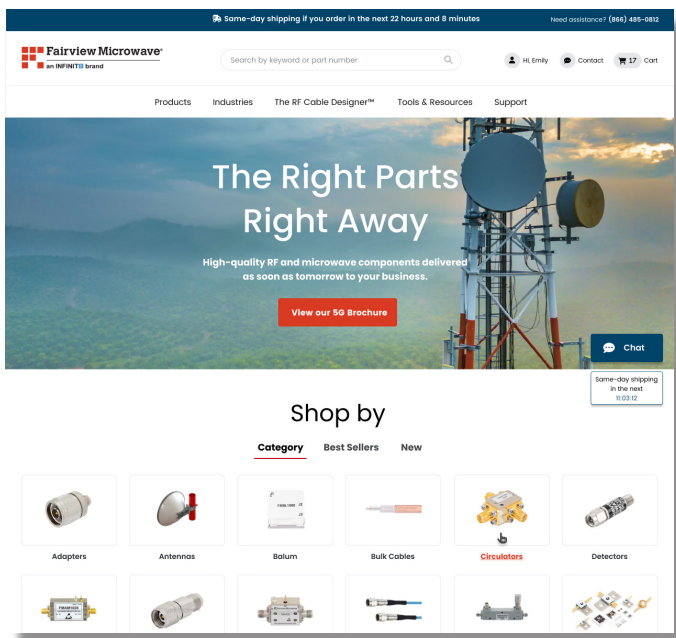


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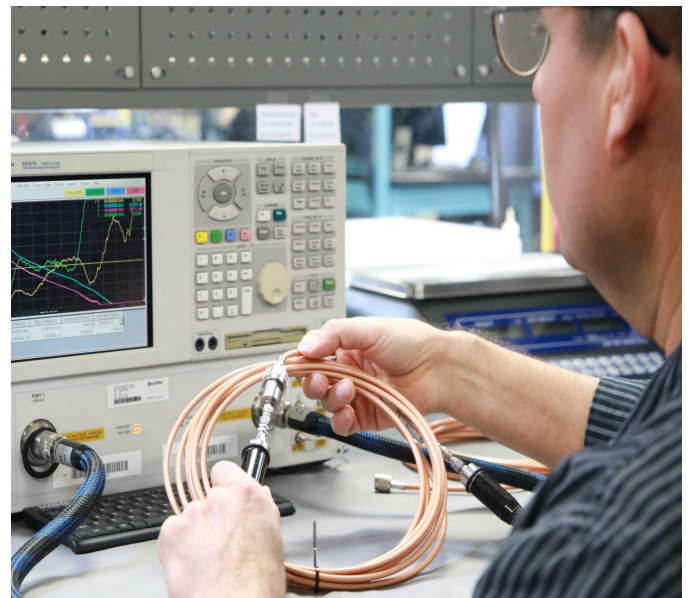
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