

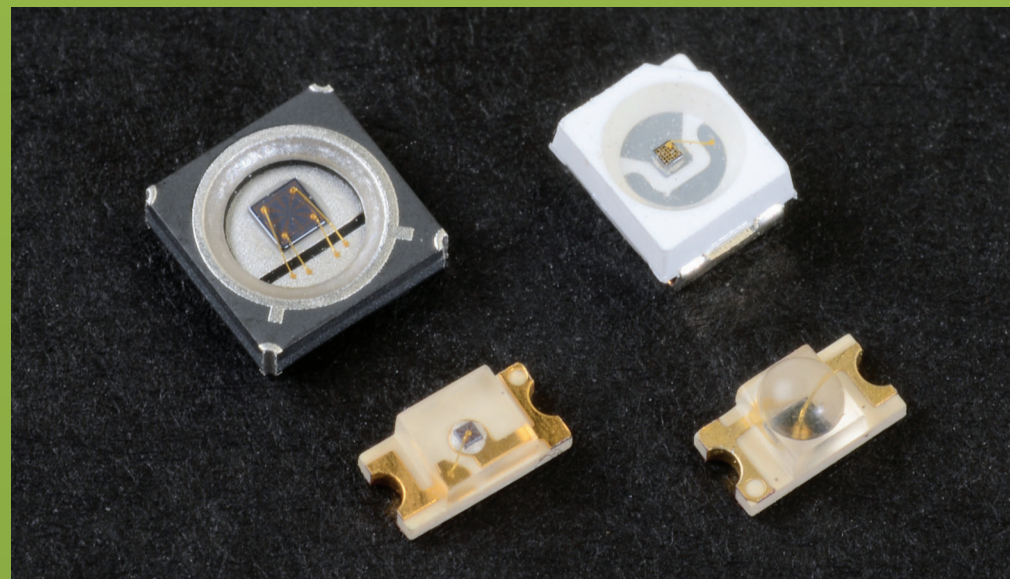
SWIR PHOTODETECTORS

Product	Wavelength (nm)	Spectral Range	Active Area	Type	Package
MTD6013D3-PD	1300	750-1750	0.20mm ²	InGaAs PIN Photodiode	3mm Plastic Flat Lens (2 pin)
MTPD1346D-010	1300	600-1750	0.1mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-030	1300	600-1750	0.3mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-050	1300	600-1750	0.5mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-080	1300	600-1750	0.8mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-100	1300	600-1750	1.0mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-150	1300	600-1750	1.5mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-200	1300	600-1750	2.0mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD1346D-300	1300	600-1750	3.0mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (2 pin)
MTPD2200-100	1950	900-2100	1.0mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (3 pin)
MTPD2600-100	2300	900-2600	1.0mm	InGaAs PIN Photodiode	TO-46 Metal Can Flat Lens - (3 pin)

PHOTOREFLECTORS

Product	Wavelength (nm)	Device Type	Forward Voltage	Output Current (µA)	Package
MTRS4720D	468	Si Photo Diode	3.5 - 4.0	0.35	4mm Plastic Flat Lens (4 pin)
MTRS5250D	520	Si Photo Diode	3.5 - 4.0	0.30	4mm Plastic Flat Lens (4 pin)
MTRS5750	574	Si Photo Diode	2.4 - 2.8	150	4mm Plastic Flat Lens (4 pin)
MTRS5750D	574	Si Photo Transistor	2.4 - 2.8	0.18	4mm Plastic Flat Lens (4 pin)
MTRS5900D	590	Si Photo Diode	2.0 - 2.5	0.30	4mm Plastic Flat Lens (4 pin)
MTRS6140D	610	Si Photo Diode	2.0 - 2.5	0.55	4mm Plastic Flat Lens (4 pin)
MTRS6660	660	Si Photo Transistor	1.8 - 2.2	1200	4mm Plastic Flat Lens (4 pin)
MTRS6660D	660	Si Photo Diode	1.8 - 2.2	1.5	4mm Plastic Flat Lens (4 pin)
MTRS1070	700	Si Photo Transistor	1.8 - 2.2	500	4mm Plastic Flat Lens (4 pin)
MTRS8800RWSC4	880	Si Photo Diode	1.45	0.01	TO-46 Metal Can Flat Lens (3 pin)
MTRS9520	950	Si Photo Transistor	1.1 - 1.4	100	4mm Plastic Flat Lens (4 pin)
MTRS4010C	1040	InGaAs Photo Diode	1.25	180	5.1x3.3mm SMD (4 pin)
MTRS7010C	1070	InGaAs Photo Diode	1.25	180	5.1x3.3mm SMD (4 pin)
MTRS0012C	1220	InGaAs Photo Diode	1.03	180	5.1x3.3mm SMD (4 pin)
MTRS6014C	1430	InGaAs Photo Diode	0.95	180	5.1x3.3mm SMD (4 pin)
MTRS5016C	1625	InGaAs Photo Diode	0.70	180	5.1x3.3mm SMD (4 pin)
MTRS0013C	1300	InGaAs Photo Diode	1.00	180	5.1x3.3mm SMD (4 pin)

SWIR EMITTERS, DETECTORS AND REFLECTIVE SENSORS



Standard SWIR Emitters from 1020-1720nm. Standard SWIR Detectors from 600 – 2600nm. Standard SWIR Photoreflectors from 1040nm – 1925nm. Custom higher wavelengths available

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EXTENDED WAVELENGTH SHORT WAVE INFRARED EMITTERS & DETECTORS

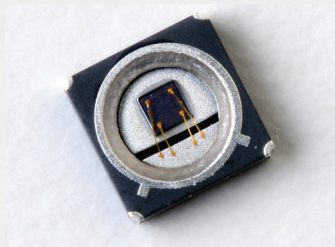
Marktech offers the newest line of Short Wave Infrared (SWIR) emitters ranging from 1020nm to 1720nm. Choose from 8 different wavelengths and 6 different size standard packages. The standard product offering will be available on Digi-Key.

There are other options available in extended wavelength SWIR products ranging from 1020nm to 3000nm and beyond.

In addition, Marktech offers cost-effective custom design, packaging, and hybridization of all of their LEDs and detectors. These newest SWIR emitters complement Marktech's other emitter products in the UV, visible and infrared spectrums.

Marktech's lineup of detectors includes a large assortment of products ranging from 280nm to 2.6um including specialty photodetectors (GaP Schottky), silicon photo transistors, InGaAs PIN photodiodes, silicon Avalanche photodiodes, and standard silicon photodiodes.

View Marktech's Product Selector Guide at www.marktechopto.com to learn more.



SWIR EMITTERS

Product	Wavelength (nm)	VA	Power Output Typ. (mW)	Forward Voltage (Typ. V)	Conditions If (mA)=	Bandwidth	Description
MTSM2010-496-IR	1020	150	17 mW/sr	1.20	350	40	3838 SMD Flat Lens - (2 pin)
MT51020-IR	1020	20	4.0	1.25	100	50	5mm Plastic Round (2 pin)
New MTE4110C2	1040	120	8.2	1.25	20	34	3mm Plastic Flat Lens - (2 pin)
New MTE4110D4	1040	120*	11.5	1.24	20	35	3mm Plastic Domed Lens - (2 pin)
New MTE4110W-WRC	1040	100	5.6	1.24	20	35	TO-46 Metal Can Flat Lens - (2 pin)
New MTE4110N-WRC	1040	16	5.3	1.24	20	34	TO-46 Metal Can Domed Lens - (2 pin)
MTE5010-015-IR	1050	6	1.6	1.15	20	100	TO-46 Metal Can Domed Lens - (2 pin)
MTE5010-095-IR	1050	40	5.0	1.20	50	100	TO-46 Metal Can Flat Lens - (2 pin)
MTE5010-995-IR	1050	45	7.5	1.20	50	80	3527 SMD Flat Lens - (2 pin)
MTSM5010-199-IR	1050	100	1.2 mW/sr	1.20	50	80	1206 SMD Flat Lens - (2 pin)
MTE5010-525-IR	1050	20	4.0	1.15	20	50	5mm Plastic Round (2 pin)
MTSM5010-843-IR	1050	120	4.0	1.30	50	40	1206 SMD Domed Lens - (2 pin)
MT51060-IR	1060	20	4.0	1.25	100	80	5mm Plastic Round (2 pin)
New MTE7110C2	1070	120	8.0	1.24	20	38	3mm Plastic Flat Lens - (2 pin)
New MTE7110D4	1070	120*	11.2	1.24	20	37	3mm Plastic Domed Lens - (2 pin)
New MTE7110W-WRC	1070	100	5.5	1.25	20	38	TO-46 Metal Can Flat Lens - (2 pin)
New MTE7110N-WRC	1070	16	5.2	1.27	20	37	TO-46 Metal Can Domed Lens - (2 pin)
MTE0012-015-IR	1200	6	1.5	0.90	20	70	TO-46 Metal Can Domed Lens - (2 pin)
MTE0012-095-IR	1200	50	6.0	1.00	100	70	TO-46 Metal Can Flat Lens - (2 pin)
MTE0012-995-IR	1200	45	3.5	1.00	50	100	3527 SMD Flat Lens - (2 pin)
MTSM0012-199-IR	1200	100	5.0	1.00	50	80	1206 SMD Flat Lens - (2 pin)
MTE0012-525-IR	1200	20	0.9	0.90	20	70	5mm Plastic Round (2 pin)
MTSM0012-843-IR	1200	120	5.0	1.00	50	80	1206 SMD Domed Lens - (2 pin)
New MTE1200C2	1200	120	4.6	1.00	20	66	3mm Plastic Flat Lens - (2 pin)
New MTE1200D4	1200	120*	6.3	0.98	20	65	3mm Plastic Domed Lens - (2 pin)
New MTE1200W-WRC	1200	100	3.1	0.99	20	60	TO-46 Metal Can Flat Lens - (2 pin)
New MTE1200N-WRC	1200	16	2.9	1.00	20	61	TO-46 Metal Can Domed Lens - (2 pin)

* preliminary data

SWIR EMITTERS

Product	Wavelength (nm)	VA	Power Output Typ. (mW)	Forward Voltage (Typ. V)	Conditions If (mA)=	Bandwidth	Description
MTE0013-015-IR	1300	6	1.6	0.85	20	85	TO-46 Metal Can Domed Lens - (2 pin)
MTE0013-095-IR	1300	50	6.0	1.10	100	70	TO-46 Metal Can Flat Lens - (2 pin)
MTE0013-995-IR	1300	45	3.5	0.80	50	70	3527 SMD Flat Lens - (2 pin)
MTE1300-WRC	1300	92	1.0	0.80	50	70	TO-46 Metal Can Flat Lens - (2 pin)
MTE1300N	1300	20	3.0	0.80	50	85	TO-18 Metal Can Domed Lens - (2 pin)
MTE1300NN1-WRC	1300	12	1.4	0.80	50	85	TO-46 Metal Can Domed Lens - (2 pin)
MTE1300SL-WRC	1300	26	0.7	0.80	50	85	TO-18 Focused Ball Lens - (2 pin)
MTE1300W	1300	50	3.8	0.80	50	85	TO-46 Metal Can Flat Lens - (2 pin)
MTSM0013-199-IR	1300	100	5.0	1.00	50	90	1206 SMD Flat Lens - (2 pin)
MTE0013-525-IR	1300	20	2.2	0.85	20	70	5mm Plastic Round (2 pin)
MTSM0013-843-IR	1300	120	5.0	1.00	50	90	1206 SMD Domed Lens - (2 pin)
New MTE1300C2	1300	120	4.3	0.95	20	70	3mm Plastic Flat Lens - (2 pin)
New MTE1300D4	1300	120*	6.1	0.95	20	71	3mm Plastic Domed Lens - (2 pin)
New MTE1300W-WRC	1300	100	3.0	0.96	20	69	TO-46 Metal Can Flat Lens - (2 pin)
New MTE1300N-WRC	1300	16	2.8	0.96	20	69	TO-46 Metal Can Domed Lens - (2 pin)
MTE5014-015-IR	1450	6	1.5	0.80	20	150	TO-46 Metal Can Domed Lens - (2 pin)
MTE5014-095-IR	1450	80	4.6	0.80	100	150	TO-46 Metal Can Flat Lens - (2 pin)
MTE5014-995-IR	1450	45	3.5	0.80	50	120	3527 SMD Flat Lens - (2 pin)
MTSM5014-199-IR	1450	100	2.0	1.00	50	90	1206 SMD Flat Lens - (2 pin)
MTE5014-525-IR	1450	20	1.8	0.80	20	150	5mm Plastic Round (2 pin)
MTSM5014-843-IR	1450	120	2.0	1.00	50	90	1206 SMD Domed Lens - (2 pin)
New MTE6114C2	1460	120	2.7	0.91	20	106	3mm Plastic Flat Lens - (2 pin)
New MTE6114D4	1460	120*	4.3	0.91	20	105	3mm Plastic Domed Lens - (2 pin)
New MTE6114W-WRC	1460	100	2.1	0.92	20	103	TO-46 Metal Can Flat Lens - (2 pin)
New MTE6114N-WRC	1460	16	2.0	0.91	20	103	TO-46 Metal Can Domed Lens - (2 pin)
MTE5015-015-IR	1550	6	0.8	0.70	20	130	TO-46 Metal Can Domed Lens - (2 pin)
MTE5015-095-IR	1550	50	4.5	0.75	100	130	TO-46 Metal Can Flat Lens - (2 pin)
MTE5015-995-IR	1550	45	3.0	0.80	50	130	3527 SMD Flat Lens - (2 pin)
MTSM5015-199-IR	1550	100	1.7	1.00	50	130	1206 SMD Flat Lens - (2 pin)
MTE5015-525-IR	1550	20	0.9	0.75	20	130	5mm Plastic Round (2 pin)
MTSM5015-843-IR	1550	120	1.7	1.00	50	130	1206 SMD Domed Lens - (2 pin)
New MTE5115C2	1550	120	2.5	0.93	20	98	3mm Plastic Flat Lens - (2 pin)
New MTE5115D4	1550	120*	3.6	0.91	20	100	3mm Plastic Domed Lens - (2 pin)
New MTE5115W-WRC	1550	100	1.8	0.92	20	103	TO-46 Metal Can Flat Lens - (2 pin)
New MTE5115N-WRC	1550	16	1.7	0.92	20	103	TO-46 Metal Can Domed Lens - (2 pin)
MTE5016-015-IR	1650	6	1.0	0.70	20	100	TO-46 Metal Can Domed Lens - (2 pin)
MTE5016-095-IR	1650	90	1.5	0.70	20	100	TO-46 Metal Can Flat Lens - (2 pin)
MTE5016-995-IR	1650	45	1.3	0.80	50	100	3527 SMD Flat Lens - (2 pin)
MTE5016W-WRC	1650	100	1.0	0.75	50	150	TO-18 Metal Can Flat Lens (2 pin)
MTSM5016-199-IR	1650	100	1.7	1.00	50	130	1206 SMD Flat Lens - (2 pin)
MTE5016N-WRC	1650	12	1.0	0.75	50	150	TO-18 Metal Can Domed Lens (2 pin)
MTE5016-525-IR	1650	20	1.5	0.70	20	100	5mm Plastic Round (2 pin)
MTSM5016-843-IR	1650	120	1.7	1.00	50	130	1206 SMD Domed Lens - (2 pin)
New MTE5116C2	1650	120	1.9	0.85	20	118	3mm Plastic Flat Lens - (2 pin)
New MTE5116D4	1650	120*	3.0	0.85	20	113	3mm Plastic Domed Lens - (2 pin)
New MTE5116W-WRC	1650	100	1.6	0.86	20	116	TO-46 Metal Can Flat Lens - (2 pin)
New MTE5116N-WRC	1650	16	4.6	0.87	20	115	TO-46 Metal Can Domed Lens - (2 pin)
MTE2017-015-IR	1720	6	1.0	0.70	20	130	TO-46 Metal Can Domed Lens - (2 pin)
MTE2017-095-IR	1720	45	1.0	0.70	20	130	TO-46 Metal Can Flat Lens - (2 pin)

* preliminary data