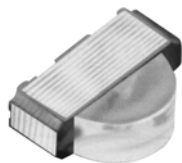


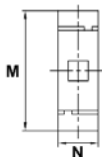
PCB Chip Types

PCB Chip, Right Angle Type, Round Top

SMD LED



RoHS



TCI Part No.	Chip			Lens Color	I _v (mcd)			V _F (v)@20mA		Viewing Angle 2θ1/2	Outline (mm)			
	Material	Emitted Color	λD(nm)		Min.	Typ.	at I _F =mA	Typ.	Max.		M	N	D	H
TSPR-CR3020	GaN/SiC	Purplish Blue	466	Water Clear	17	22	20	3.8	4.5	120°	3.0	1.0	2.0	2.0
TSPR-BR3015-NQ	InGaN	Super Blue	470	Water Clear	28.5	65	20	3.3	3.7	100	3.0	1.0	2.0	1.5
TSPR-BR3020-AN1P2				Water Clear	28.5	45	20	3.3	4.0	120°	3.0	1.0	2.0	2.0
TSPR-TR3015-R2T1	InGaN	True Green	525	Water Clear	140	250	20	3.3	3.7	100°	3.0	1.0	2.0	1.5
TSPR-TR3020-YR2S2				Water Clear	140	200	20	3.3	3.7	120°	3.0	1.0	2.0	2.0
TSPR-FR3020E2	AllnGaP	Yellowish Green	573	Water Clear	19	26	20	2.0	2.4	120°	3.0	1.0	2.0	2.0
TSPR-XR3020A3	AllnGaP	Super Yellow	589	Water Clear	26	35	20	2.0	2.4	120°	3.0	1.0	2.0	2.0
TSPR-JR3020A3	AllnGaP	Sunset Orange	615	Water Clear	45	71	20	2.0	2.4	120°	3.0	1.0	2.0	2.0
TSPR-QR3020A3	AllnGaP	Super Red	624	Water Clear	45	68	20	2.0	2.4	120°	3.0	1.0	2.0	2.0