

## SPDT Dual Control Switches

Part Number	TYPICAL ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C) Frequency range: 0.1 to 2.5 GHz						Package Code
	Features	Control Voltages (V)	Insertion Loss (dB)	Isolation @2 GHz (dB)	Input Power @0.1 dB compression point	Input Power @1.0 dB compression point	
UPG158TB <sup>NR</sup>	Low Cost	+3/0 or 0/+3	0.40@2GHz	27	23 dBm	27 dBm	TB
UPG168TB <sup>NR</sup>	Low Cost	+3/0 or 0/+3	0.40@2GHz	27	23 dBm	27 dBm	TB
UPG2008TK <sup>NR</sup>	Small Footprint/Low Profile	+2.8/0 or 0/+2.8	0.55@2GHz	27	20 dBm	25 dBm	TK
UPG2009TB	High Power/High Linearity	+2.8/0 or 0/+2.8	0.30@2GHz	28	34 dBm	36 dBm	TB
UPG2030TB	Great Performance/1 Watt	+2.8/0 or 0/+2.8	0.30@2GHz	27	27 dBm	27 dBm	TB
UPG2030TK	Great Performance/1 Watt	+2.8/0 or 0/+2.8	0.30@2GHz	27	27 dBm	27 dBm	TK
UPG2179TB	Great Performance/1.5 Watt	+3.0/0 or 0/+3.0	0.30@2GHz	27	29 dBm	32 dBm	TB
UPG2214TB	Low Cost/ ½ Watt	+3/0 or 0/+3	0.30@2GHz	27	23 dBm	27 dBm	TB
UPG2214TB	Low Cost/1.8 Volt	+1.8/0 or 0/1.8	0.30@2GHz	27	17 dBm	20 dBm	TB
UPG2214TK	Low Cost/ ½ Watt	+3/0 or 0/+3	0.30@2GHz	27	23 dBm	27 dBm	TK
UPG2214TK	Low Cost/1.8 Volt	+1.8/0 or 0/1.8	0.30@2GHz	27	17 dBm	20 dBm	TK

## SPDT Single Control Switches

Part Number	TYPICAL ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C) Frequency range: 0.1 to 2.5 GHz						Package Code
	Features	Control Voltages (V)	Insertion Loss (dB)	Isolation @2 GHz (dB)	Input Power @0.1 dB compression point	Input Power @1.0 dB compression point	
UPD5710TK	Low Cost CMOS/Small Size	+3.0/0	0.8@2GHz	25	17 dBm	21 dBm	TK
UPG2010TB	High Power	+2.8/0	0.30@2GHz	28	30 dBm	33 dBm	TB
UPG2012TB	Low Power	+2.8/0	0.30@2GHz	28	20.5 dBm	24 dBm	TB
UPG2012TK	Low Power/Small Size	+2.8/0	0.30@2GHz	28	20.5 dBm	24 dBm	TK
UPG2015TB	Medium Power	+2.8/0	0.30@2GHz	28	27 dBm	30 dBm	TB

## DBS IF Switches

Part Number	ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C) Frequency range: 0.95 to 2.15 GHz							Package Code	Package Description
	Features	TYP Insertion Loss (dB)	TYP Isolation (dB)	MIN RL <sub>out</sub> (dB)	TYP Insertion Loss Flatness (dB)	TYP Control Current (mA)	V <sub>CONT</sub> Control Voltage (V)		
UPG181GR	2 X 2	5.0 @ 2.15 GHz	33 @ 1.7 GHz 30 @ 2.15 GHz	13	0.8	0.2	+5/ 0	GR	16 pin HTSSOP
UPG183GR	4 X 2	7.0 @ 1.5 GHz 8.0 @ 2.15 GHz	26.5 @ 1.5 GHz 33 @ 1.7 GHz	10	1.5	0.5	+5/ 0	GR	16 pin HTSSOP

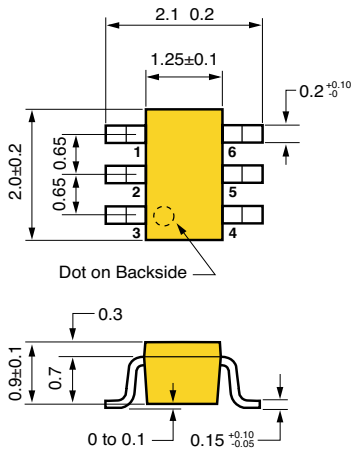
## Multi-Throw Switches

Part Number	TYPICAL ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C) Frequency range: 0.1 to 2.5 GHz						Package Code
	Features	Control Voltages (V)	Insertion Loss (dB)	Isolation @2 GHz (dB)	Input Power @0.1 dB compression point	Input Power @1.0 dB compression point	
UPG2031TQ	SP3T / High Power	+2.8/0	0.55	21	31 dBm	33 dBm	TQ

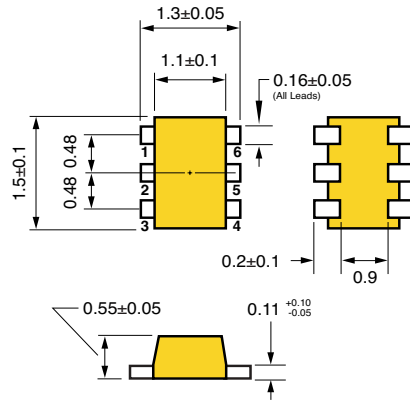
## 2.4 & 5GHz Switches

Part Number	TYPICAL ELECTRICAL CHARACTERISTICS (T <sub>A</sub> = 25°C)						Package Code
	Features	Control Voltages (V)	Insertion Loss (dB)	Isolation @2 GHz (dB)	Input Power @0.1 dB cmp point	Input Power @1.0 dB cmp point	
UPG2022TB	SPDT: 4.8 – 5.85 GHz	+2.8/0	0.8 @5.2 GHz	24@5.2 GHz	31 dBm	33 dBm	TB
UPG2022T5G	SPDT: 4.8 – 5.85 GHz	+2.8/0	0.7 @5.2 GHz	22@5.2 GHz	31 dBm	33 dBm	T5G
UPG2024TQ	DPDT: 4.8 – 5.85 GHz	+2.8/0	1.0 @5.8 GHz	20@5.8 GHz	33 dBm	35 dBm	TQ
UPG2035T5F	DPDT: 2.4 – 2.5 GHz	+3.0/0	0.8 @2.4 GHz	34@2.4 GHz	–	31 dBm	T5F
	DPDT: 4.9 – 6.0 GHz		1.2 @5.8 GHz	33@5.8 GHz		33 dBm	

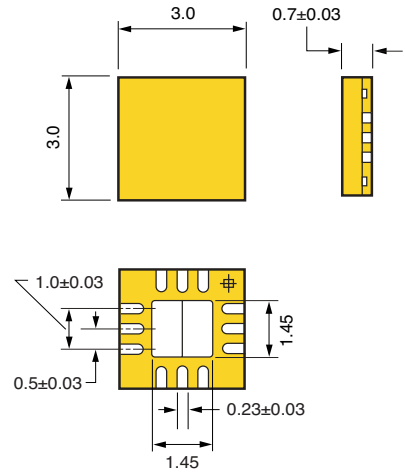
Note: NR = Not Recommended For New Designs



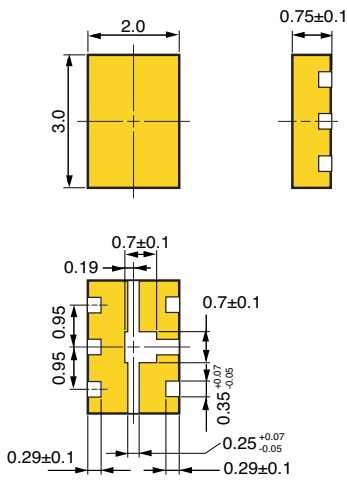
**TB Package**



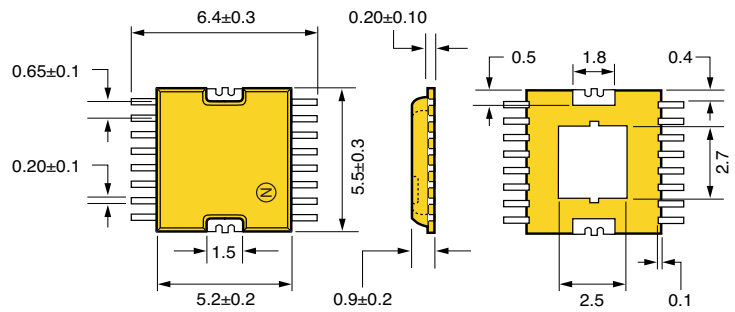
**TK Package**



**T5F Package**



**T5G Package**



**16 Pin HTSSOP Package**

**TQ / 10 Pin TSON Package**

