

New RF Switches by CEL

Lower Cost Drop-In Replacements to Many Industry Standard Switches

OVERVIEW

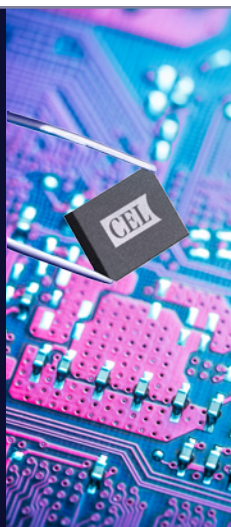
CEL is offering a new family of RF Switches of many Switch types supporting frequencies up to 6GHz.

Drop-in Replacements

CEL offers drop-In alternatives to discontinued Renesas Electronics RF products with cost savings to customers.

Look for this icon  next to any Renesas discontinued part number for its CEL equivalent drop-in replacement.

Visit: www.cel.com/RF for the latest information as we continue to release new products.



BENEFITS & FEATURES



Lower Cost

Cost Savings for New and Existing Customers



Drop-In Replacements

Replace your Renesas Phased-Out Devices with CEL's RF Parts



High RF Performance

Better RF Performance than other RF Switches



High Japanese Quality

Manufactured in Japan with High Quality, Packaging and Testing

RF SWITCHES

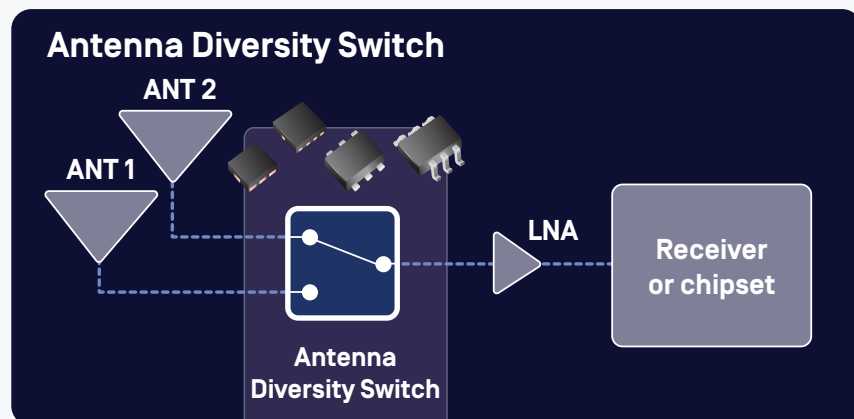
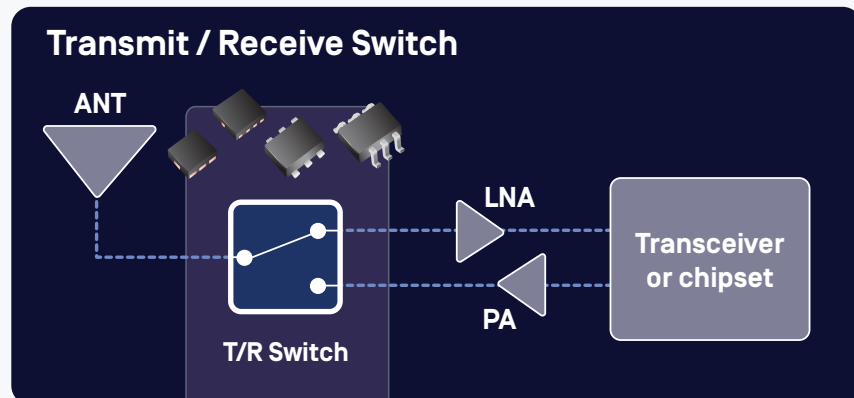
CEL Part Numbers	Switch Type	MAX Freq. (GHz)	Insertion Loss (dB)		Isolation (dB)		P0.1dB (dBm)		 Drop-in Replacement to Renesas	Package Type
			2.5 GHz	6.0 GHz	2.5 GHz	6.0 GHz	2.5 GHz	6.0 GHz		
CG2179M2	SPDT	3.0	0.45	N/A	26	N/A	+30	N/A	UPG2214TB UPG2406TB UPG2408TB	 (1.25 x 2.0 x 0.9)
CG2214M6	SPDT	3.0	0.35	N/A	25	N/A	+30	N/A	UPG2030TK UPG2214TK UPG2408TK UPD5713TK*	 (1.1 x 1.5 x 0.55)
CG2163X3	SPDT	6.0	0.40	0.50	40	31	+29	+28	UPG2163T5N	 (1.5 x 1.5 x 0.37)
CG2185X2	SPDT	6.0	0.35	0.40	28	26	+29	+29	UPG2185T6R	 (1.0 x 1.0 x 0.37)
CG2176X3	Absorptive SPDT	6.0	0.45	0.55	30	22	+35	+37	UPG2176T5N	 (1.5 x 1.5 x 0.37)
CG2415M6	SPDT	6.0	0.35	0.45	32	26	+31	+31	UPG2415TK	 (1.1 x 1.5 x 0.55)
CG2430X1	SP3T	6.0	0.50	0.60	28	25	+28	+28	UPG2430T6Z	 (1.5 x 1.5 x 0.37)

* Drop in but not direct

New RF Switches by CEL



BLOCK DIAGRAM EXAMPLES



TARGET MARKETS



WLAN
Wi-Fi / Routers and Gateways



Bluetooth™
Smart Bluetooth /
Bluetooth 4.0 Applications



ZigBee®
802.15.4 / 2.5GHz Applications



Mobilecomm
3G / 4G / 5G / LTE



AMI/AMR
Advance Meter Infrastructure and
Automatic Meter Reading



**General SRW /
Wireless Security**
Short Range Wireless and Security

AVAILABLE TOOLS & DOCUMENTATION

- **Evaluation Boards:**
Available for each switch (part numbers CG2xxx-EVAL)
- **RF Switch IC Selection Guide**
- **Datasheets:**
CG2179M2, CG2214M6, CG2163X3, CG2185X2, CG2176X3,
CG2415M6, CG2430X1

Get Full Access of Tools & Documents @ www.cel.com/RF

