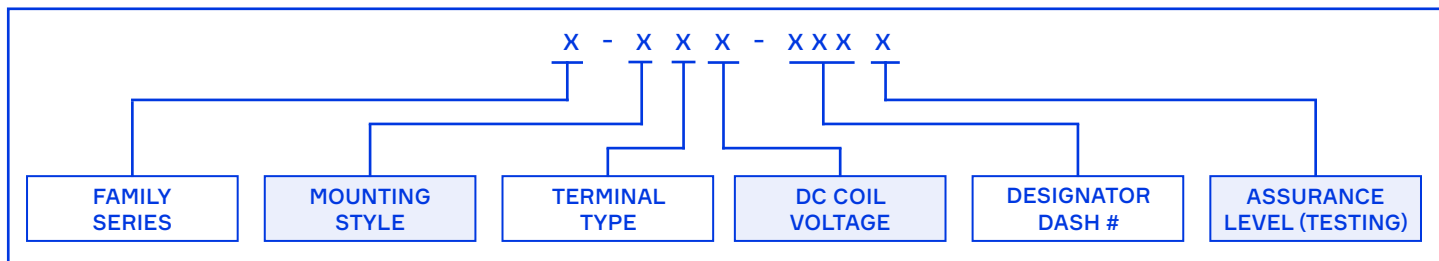


## Relays Numbering Guide



Leach subminiature relays have set the industry standards for technology and reliability for decades. With their proven high performance in the most demanding applications, they are ideal for critical subsea, shipboard, ground-based and aerospace applications.

### DC Series



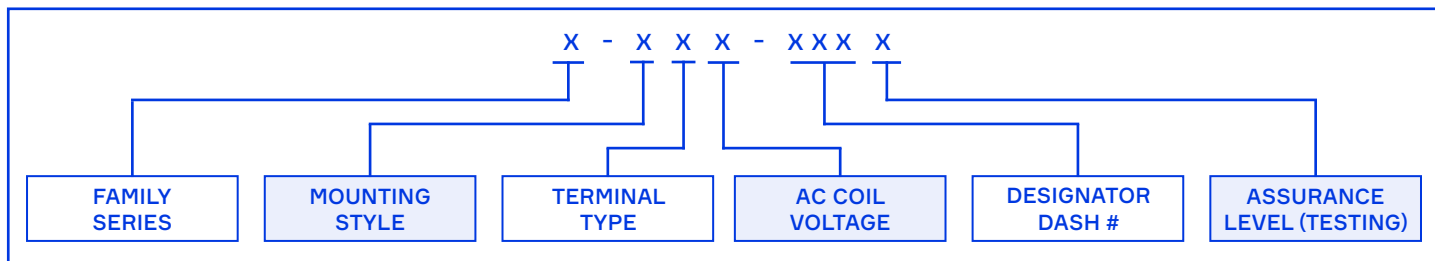
FAMILY SERIES	MOUNTING STYLE	TERMINAL TYPE	DC COIL VOLTAGE
X OR XL* (5 A, 2PDT)	<b>A: Through Hole</b> 	<b>1: Tin/Lead Pin</b> Use without socket	A: 28 V
Y OR YL* (5 A, 4PDT)			
JS (10 A, 1PDT)	<b>D: Standoff Flange</b> 	<b>2: Solder hook</b>	B: 12 V
XC OR XCL* (10 A, 1PDT)			C: 6 V
YC OR YCL* (10 A, 3PDT)	<b>E: Track Mount</b> 	<b>4: Gold Plated Pin</b> Use with Socket	M: 48 V
J OR JL* (12 A, 2PDT)			
K OR KL* (12 A, 4PDT)	<b>G: Wall Mount – Stud</b> 	<b>7: 90° Tin/Lead Pin</b>	N: 28 V +back EMF Suppression
JC OR JCL* (25 A, 1PDT)			R: 12 V +back EMF Suppression
KC OR KCL* (25 A, 3PDT)	<b>J: Wall Flange</b> 		V: 6 V +back EMF Suppression
KD OR KDL* (25 A, 3PST)			


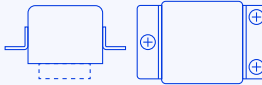
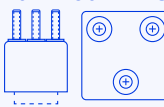
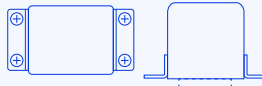
DESIGNATOR DASH #	ASSURANCE LEVEL (TESTING)	
254: Space COTS	W / V / U (Painted) M / N / P (Unpainted)	<a href="#">More info</a>
002: Standard MIL 6106	Failure Rate: L : 3.0% / 10,000 Operation M: 1.0% / 10,000 Operation	
003: Standard MIL 6106 + CB		
102: Standard MIL 6106 + reliability screening		
103: Standard MIL 6106 + CS + CB		
104: Standard MIL 6106 + CS + CB + reliability screening		
004: Standard MIL 39016 + reliability screening		
300: Standard MIL 83536 + reliability screening + CB (suppressed + non-suppressed coils) QPL Parts		
304: Standard MIL 83536 + reliability screening + CB (w/O internal arc suppression)		
Other 3 digit #s: Customer Specific Part		
Blank: Commercial		

\*L = Latching (Family Series)      CB: Circuit Breaker Compatibility      CS: Coil Suppression

To order items on this page or for further technical assistance, please contact [Relayed@Leachcorp.com](mailto:Relayed@Leachcorp.com)

### AC Series

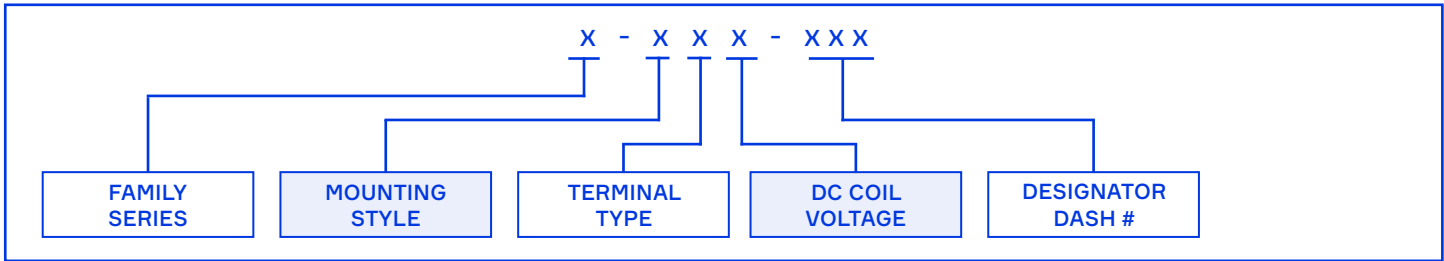


FAMILY SERIES	MOUNTING STYLE	TERMINAL TYPE	AC COIL VOLTAGE
XA (5 A, 2PDT)	A: Socket Mount/Thru Hole 	1: Tin/Lead Pin Use without socket	E: 28 VAC, 400 Hz
YA (5 A, 4PDT)			
JA (10 A, 2PDT)	D: Standoff Flange 	2: Solder hook	F: 115 VAC, 400 Hz
JSA (10 A, 1PDT)			
YCA (10 A, 3PDT)	G: Wall Mount – Stud 	4: Gold Plated Pin Use with Socket	J: 28 VAC, 50-400 Hz
JCA (25 A, 1PDT)			
KCA (25 A, 3PDT)	J: Wall Flange 	7: 90° Tin/Lead Pin	K: 115 VAC, 50-400 Hz
KDA (25 A, 3PSTNO+AUX)			

DESIGNATOR DASH #	ASSURANCE LEVEL (TESTING)	
254: Space COTS	W / V / U (Painted) M / N / P (Unpainted)	<a href="#">More info</a>
002: Standard MIL 6106	Failure Rate: L : 3.0% / 10,000 Operation M: 1.0% / 10,000 Operation	
003: Standard MIL 6106 + CB		
102: Standard MIL 6106 + reliability screening		
103: Standard MIL 6106 + CS + CB		
104: Standard MIL 6106 + CS + CB + reliability screening		
004: Standard MIL 39016 + reliability screening		
300: Standard MIL 83536 + reliability screening + CB (suppressed + non-suppressed coils) QPL Parts		
304: Standard MIL 83536 + reliability screening + CB (W/O internal arc suppression)		
Other 3 digit #: Customer Specific Part		
Blank: Commercial		

CB: Circuit Breaker Compatibility      CS: Coil Suppression

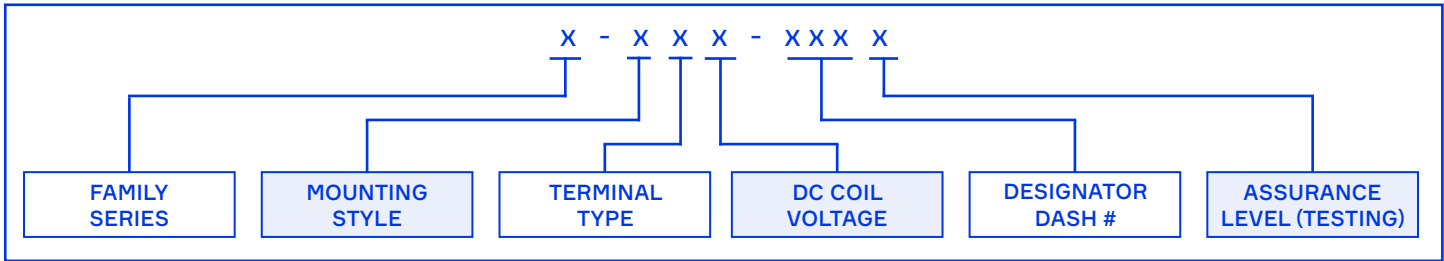
KM Series



FAMILY SERIES	MOUNTING STYLE	TERMINAL TYPE	DC COIL VOLTAGE
KM (50 A, 1PSTNO(DM))	<div>D</div>	<div>5</div>	A: 28 V
	<div>J</div>		B: 12 V
	<div>U</div>		C: 6 V
			M: 48 V
			N: 28 V +back EMF Suppression
			R: 12 V +back EMF Suppression
	V: 6 V +back EMF Suppression		

DESIGNATOR DASH #
Other 3 digit #s: Customer Specific Part
Blank: Commercial

KX Series



FAMILY SERIES	MOUNTING STYLE	TERMINAL TYPE	DC COIL VOLTAGE
KX (75 A, 1PSTNO(DM))	A: Socket Mount/Thru Hole 	<div>5</div> 	A: 28 V
KXD (75 A, 1PSTNO(DM)+AUX)	X: Side Flushed Flange 		B: 12 V
KXL* (75 A, 1PSTNO(DM))	U: Flushed Flange 		C: 6 V
KXL* (75 A, 1PSTNO(DM))	U: Flushed Flange 		M: 48 V
KXL* (75 A, 1PSTNO(DM))	U: Flushed Flange 		N: 28 V +back EMF Suppression
KXDL* (75 A, 1PSTNO(DM) + 1 PDT AUX)	D: Standoff Flange 	9: 90° Tin/Lead Pin	R: 12 V +back EMF Suppression
			V: 6 V +back EMF Suppression

\*L = Latching (Family Series)

DESIGNATOR DASH #	ASSURANCE LEVEL (TESTING)	
254: Space COTS	W / V / U (Painted)	<a href="#">More info</a>
Other 3 digit #s: Customer Specific Part	M / N / P (Unpainted)	
Blank: Commercial		

## Space COTS Assurance Level - Testing Information

The “-254” indicator establishes a dedicated method for specifying a Leach part number for many Leach subminiature relays used in space applications. By utilizing the following three-digit dash number and assurance levels, a standardized set of test and process requirements are established, based on MIL-Spec and Leach standard procedures. This system allows customers to specify requirements without a Source Control Drawing and establishes a method for procuring Leach high-reliability relays.

## Model Number Designator to Specific Requirements

- All -254 products receive full ATP to applicable requirements with recorded data, and they are serialized and marked with the manufacturing lot ID. Parts shall be manufactured to a single lot date code.
- All relays are Millipore cleaned, 100% Pre-Can inspected, PIND tested, and X-rayed.
- Customer source inspection.
- No arc barriers are installed in this series.
- Relays meet MIL requirements for Tin-Lead, 100% tested for vibration and mechanical shock.
- Group B, or Qualification testing shall be performed when required by the part number assurance level. The balance of detailed requirements shall be specified in the Leach's Product Control Drawings (PCD) that are issued for individual part numbers.

## Space COTS Assurance Levels and Test Requirements

Assurance Level	Test required	# of Qual samples
-254 W or -254 M	ATP, DPA	ATP and 2 for DPA
-254 V or -254 N	ATP, DPA & Group B	ATP, 2 for DPA & 7 Group B test
-254 U or -254 P	ATP, DPA & QTP (Full Qual)	ATP, 2 for DPA & 28 Qual tests

## Contact

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## Why Leach International?

Leach International Corporation designs and manufactures relays, electronic control devices, and power systems primarily for the aerospace and defense industries. Since 1919, Leach has been known for design excellence and commitment to quality and reliability. Our 100-year legacy includes the invention of the electrical relay for aircraft systems. Worldwide, our equipment and components are used in the most severe conditions where reliability and high performance are critical, in thousands of aerospace, military, rail and high-end industrial applications.