

DIMENSION AND WEIGHT (MASS) TABLE								
H HEIGHT ±0.5 mm	PCB MASS	TUNGSTEN BALLS IN CAVITY				Total PID MASS	SCREW ADJUST	SCREW HEX HEAD
		Ø DIA	Per Ball	QTY	Mass			
4.0mm	35g	1.5mm	0.031g	110~118	3.5g	8.0g	2-56	0.035
4.5mm	45g	2.0mm	0.073g	60-64	4.5g	9.5g	4-40	0.050
5.0mm	50g	2.3mm	0.102g	54-56	5.0g	10g	6-32	1/16
7.5mm	60g	2.5mm	0.143	40-42	6.0g	14g	6-32	1/16

NOTES: (Unless Otherwise Specified). 1) DIMENSIONS INCH (min)

**APLICATION NOTES:** 

Contact TopLine for help to select the best PID for your aplication.

NOTES 2 MOUNTING STYLE (Replace N)

1= LGA (FL) 4= BGA SAC305 (FB)

2= SCREW (FS) 5= BGA SnPb (FP

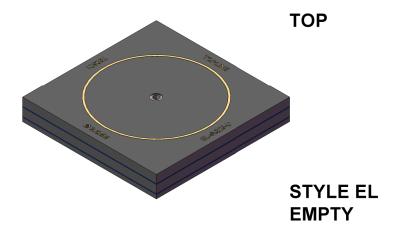
3= ADHESIVE (FA) 9= CUSTOM

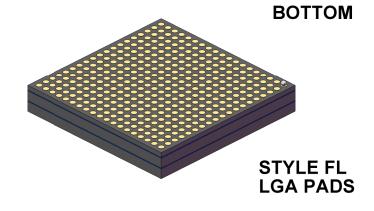


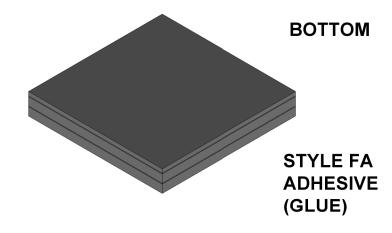
## U.S PATENT US 9521753 B1 OTHER PATENTS PENDING

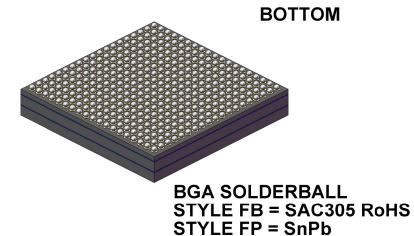
APPROVALS		DATE	<b>TopLine</b> ®					
DRAWN	T.Au	12/14/2017			<u> </u>			
ENG	M. Hart	12/14/2017	TITLE		EL-SQ25-U			
MFG			PID VIBRATION DAMPER					
QA			SCALE SIZE DRAWING NO. REV				REV	
CUST			2:1 A 702521 A					
REVISED			DO NOT SCALE DRAWING SHEET 1 OF 3				1 OF 3	

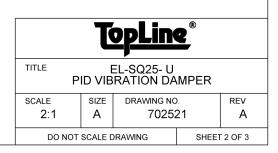
## MODELS ATTACHMENT VARIATIONS











## PART NUMBER SYSTEM

<u>F</u>	A	5.0	_SQ_	<u>25x</u>	<u>5.0</u>	A
Series	Mounting on PCB	Tungsten Payload Grams (Mins.)	Shape	X/Y Size	Height	Version/Option
Filled	Mounting Style	Code ● Grams	Code ● Shape	Code Size	Code Height	Code Version
F = FR4 Case	A = Adhesive	3.5 = 3.5gm				
A = Al Case		4.5 = 4.5gm	SQ = Square	25 = 25 mm SQ	4.0 = 4.0mm	A Standard
	L = LGA	5.0 = 5.0 gm	R = Rectangle		4.5 = 4.5mm	
	NiAu Solderable	6.0 = 6.0 gm	C = Cylindrical		5.0 = 5.0mm	
	<b>Bottom Terminal</b>		T = Toroid		7.5 = 7.5mm	
<u>Empty</u>			Z = Custom			
	B = BGA	Other Mass Available				
E = FR4 Case	SAC Solder Ball			Other Sizes	Other Sizes	Other Version
L = Al Case				Available	Available	Available
	P = BGA					
	SnPb Solder Ball					
	S = Screw Fastener					

## **ORDER NUMBER**

1	<u>1</u>	590	<u> </u>
DESCRIPTION	Mount syle	Mass (gram) 9 = Decimal	Option Code
Code ● Description  1 = Filled PID  5 = Eng Dev Kit  7 = Empty Pkg	Code ● Description  1 = LGA  2 = Screw  3 = Adhesive  4 = BGA SAC305  5 = BGA Sn63/Pb37  9 = Custom  0 = Master DWG	<u>Code</u> ● <u>Grams</u> 395 = 3.5gm 495 = 4.5gm 590 = 5.0gm 690 = 6.0gm	Code Mil  1 Version A  2 Version B  3 Version C   9 Version J

<u>TopLine</u> *						
TITLE EL-SQ25-U PID VIBRATION DAMPER						
SCALE SIZE DRAWING NO. REV NONE A 702521 A						
DO NOT SCALE DRAWING SHEET 3 OF 3						