



Sound Controls for Professional Audio



Belief in Technology

TT electronics Panel Potentiometers

Superior Panel Controls for Pro Audio Applications

Committed to providing world-class products and service to the Pro Audio market, TT electronics application engineering teams design technology customised to your needs.

The comprehensive range of panel potentiometers and encoders are suitable for multiple applications including: pre-amps, amplifiers, electric guitars, foot pedals, stomp boxes, digital drums, sound processors, broadcast mixing consoles, electric mixing boards and guitar effect consoles.

TT electronics' panel controls provide the superior performance and customized feel needed for today's generation of products. Built to robust designs, our potentiometers feature life cycles up to 5 million rotations, double the rotational life of competitive products.



A Subsidiary of TT electronics plc

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Application Areas

Electric Guitars

Models include P160, P230, P231 and P270 Series



Keyboards

Models include P090S, L Series, EN11, 12 and 16 panel encoders



Foot Pedals

Models include P232 and 6187 Series



Mixing Boards

Models include P090 and P09X Series



Amplifiers

Models include P160, P260 and P270 Series



- To check inventory at our global network of distributors visit:
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- To find a BI global distributor near you visit:
<http://dilp.netcomponents.com/bitechnologies.html>
- To cross-reference a long lead time competitors' part to a BI Technologies panel pot visit:
www.bitechnologies.com/products/search.asp

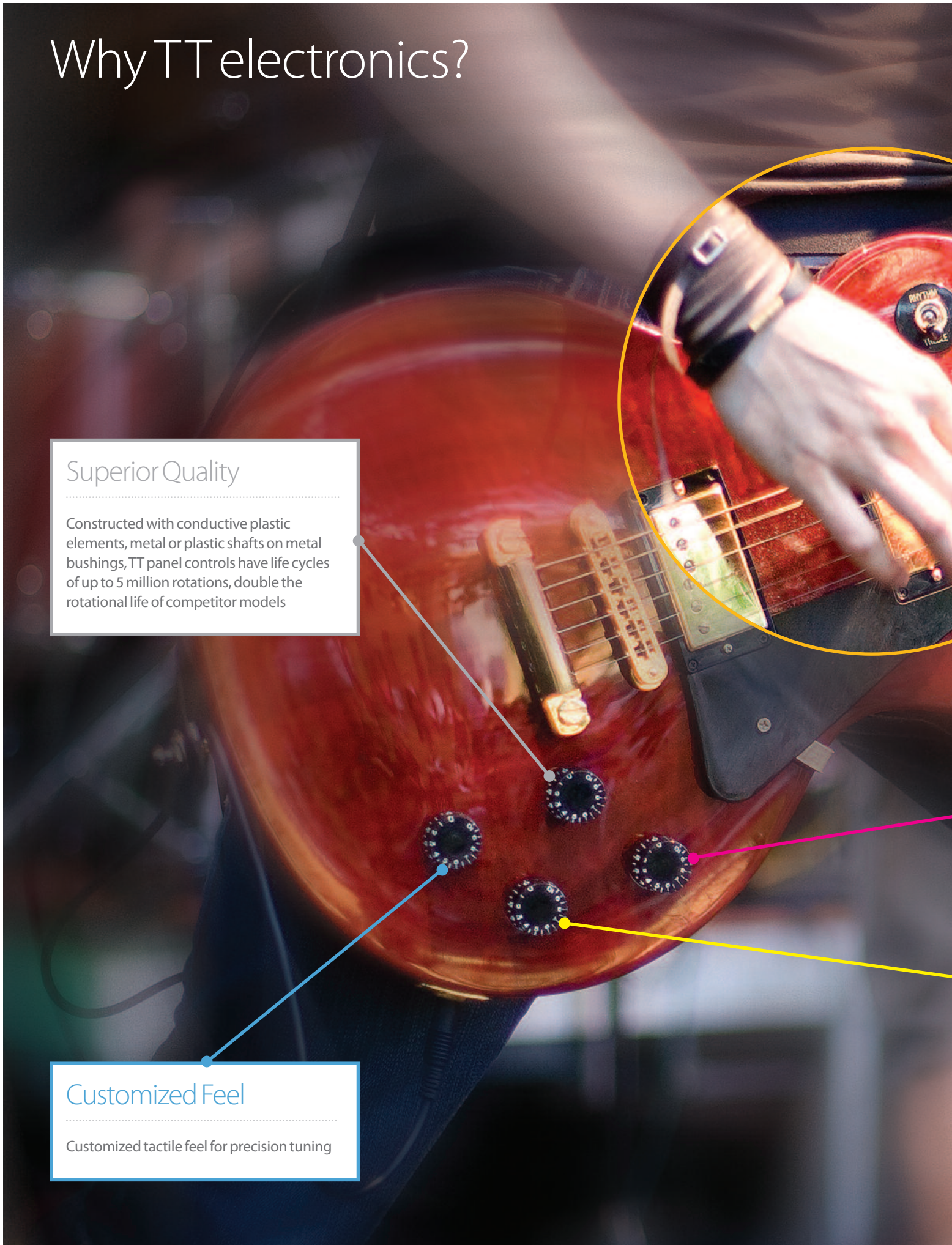
Why TT electronics?

Superior Quality

Constructed with conductive plastic elements, metal or plastic shafts on metal bushings, TT panel controls have life cycles of up to 5 million rotations, double the rotational life of competitor models

Customized Feel

Customized tactile feel for precision tuning



A background image of a person playing a guitar. A callout line from the guitar's body points to the 'More Playing Time' box. Another callout line from the guitar's neck points to the 'Special Requests' box. A third callout line from the guitar's body points to the 'Faster Delivery Worldwide' box.

More Playing Time

Longer life means fewer field failures and more playing time

Special Requests

Easy availability on most special requests and short lead times on custom tooled products

Faster Delivery Worldwide

With shorter lead times than the competition, TT electronics delivers the parts you need – quickly

Panel Potentiometers Selector Guide

	Model	Style	Package Size	Element	Shaft	Bushing	Power Rating	Rotational Life	Switch	Multi-Ganged
	P090L	Side adj.	9 mm	Con. Plas.	Plastic	N/A	0.03W	100K	N/A	N/A
	P090S	Top adj.	9 mm	Con. Plas.	Plastic	N/A	0.03W	100K	N/A	N/A
	P09xS/N	Side adj.	9 mm	Con. Plas.	Metal	Metal	0.05W	100K	Y	8
	P09x5N	Top adj.	9 mm	Con. Plas.	Metal	Metal	0.05W	100K	N/A	2
	P110KV/ KV1	Side adj.	11 mm	Con. Plas.	Plastic	Metal	0.05W	30K	N/A	N/A
	P110KH/ KH1	Top adj.	11 mm	Con. Plas.	Plastic	Metal	0.05W	30K	N/A	N/A
	P120PK	Top adj.	12 mm	Con. Plas.	Plastic	N/A	0.05W	100K	N/A	2
	P120K	Side adj.	12 mm	Con. Plas.	Plastic	N/A	0.05W	100K	N/A	2
	P140KH/ KH1	Top adj.	14 mm	Con. Plas.	Plastic	Metal	0.2W	30K	N/A	2
	P140KV/ KV1	Side adj.	14 mm	Con. Plas.	Plastic	Metal	0.2W	30K	N/A	2
	P160KN/ KN2	Side adj. PC pin	16 mm	Con. Plas.	Metal	Metal	0.2W	100K	Y	6
	P160KNPD	Rear adj. PC pin	16 mm	Con. Plas.	Metal	Metal	0.2W	100K	Y	6
	P160KNP	Solder lug	16 mm	Con. Plas.	Metal	Metal	0.2W	100K	Y	6
	P170S/N	Solder lug	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Y	N/A
	P170S2/N2	Side adj. PC pin	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Y	N/A
	P170SP1/ NP1	Top adj. PC pin	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Y	N/A
	P170SPD/ NPD	Rear adj. PC pin	17 mm	Con. Plas.	Metal	Metal	0.1W	100K	Y	N/A
	P230	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	500K	N/A	N/A
	P231	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	100K	N/A	N/A
	P232	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	2,000K	N/A	1
	P233	Solder lug	24 mm	Con. Plas.	Metal	Metal	0.5W	2,000K	N/A	2
	P260P	Side adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	N/A	6
	P260S (Switch)	Side adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	100K	Y	5
	P260D (Detent)	Side adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	100K	N/A	6
	P260T	Top adj. PC pin	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	Y	2
	P261P	Solder lug	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	N/A	6
	P261S	Solder lug	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	Y	5
	P261D	Solder lug	12.7 mm	Con. Plas.	Metal	Metal	0.5W	1,000K	N/A	6
	P270	Solder lug	27 mm	Con. Plas.	Metal	Metal	2.0W	1,000K	N/A	1
	P271	Solder lug	27 mm	Con. Plas.	Metal	Metal	2.0W	1,000K	N/A	2
	P272	Solder lug	27 mm	Con. Plas.	Metal	Metal	2.0W	1,000K	N/A	2

Encoders Selector Guide

Model	Style	Adjust	Pulses	Detents	Switch	Bushing	Shaft	Life
EN11-HSM	11 mm	Top	20	0, 20	Y	Threaded	Metal	30K
EN11-HNM	11 mm	Top	20	0, 20	N	Threaded	Metal	30K
EN11-HSB	11 mm	Top	20	0, 20	Y	Plain	Metal	30K
EN11-HNB	11 mm	Top	20	0, 20	N	Plain	Metal	30K
EN11-VSM	11 mm	Side	20	0, 20	Y	Threaded	Metal	30K
EN11-VNM	11 mm	Side	20	0, 20	N	Threaded	Metal	30K
EN11-VSB	11 mm	Side	20	0, 20	Y	Plain	Metal	30K
EN11-VNB	11 mm	Side	20	0, 20	N	Plain	Metal	30K
EN12-HS	12 mm	Top	12, 24	0, 12, 24	Y	Sleeve	Plastic	30K
EN12-HN	12 mm	Top	12, 24	0, 12, 24	N	Sleeve	Plastic	30K
EN12-VS	12 mm	Side	12, 24	0, 12, 24	Y	Sleeve	Plastic	30K
EN12-VN	12 mm	Side	12, 24	0, 12, 24	N	Sleeve	Plastic	30K
EN16-H	16 mm	Top	12, 24	0, 12, 24	N	Threaded	Plastic	30K
EN16-V	16 mm	Side	12, 24	0, 12, 24	N	Threaded	Plastic	30K

Superior Panel Controls for Pro Audio Applications

TT electronics offers one of the widest Pro Audio portfolios in the market:

- **World-class application engineering expertise**
- **Superior quality**
- **Longer rotational life**
- **Special requirements with standard availability**
- **Customized feel**
- **Broad product selection**
- **Fast worldwide availability**





Bi technologies

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