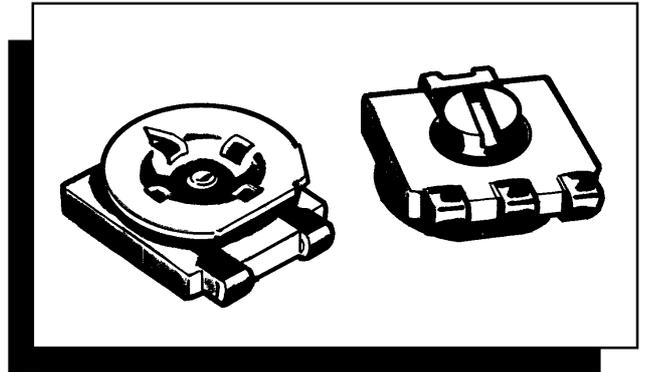


MEGGITT CITEC
POTENTIOMETERS
INDUCTORS,
SURFACE MOUNT DEVICES
SWITCHES, NETWORKS
ENCODERS, SENSORS

SMD Economy Trimmers

TYPE 3150 SERIES



This is the ultimate in light weight, low profile skeleton surface mount potentiometers. Offered in easy, top or underside adjustment, with a plus slot that is ideal for automatic adjustment. At a weight of 0.1 grams and a profile height that is only 1.5mm above the board, it is a natural choice for new generation hand held equipments. The trimmer is a mere 4mm and is a well proven and popular package supplied on standard 12mm tape for automatic placement, and reflow soldering systems. The central hole is filled with resin to improve ease of pitch and placement.

MEGGITT CITEC KEY FEATURES

- CERMET ELEMENT

- SUPPLIED ON STANDARD TAPE

- LIGHT WEIGHT - ONLY 0.1 GRAMS

- ONLY 1.5mm HEIGHT ABOVE BOARD

- LOW PRICE REDUCES PRODUCTION COSTS

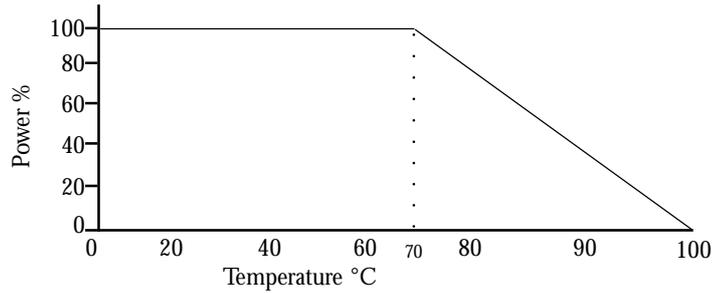
- SMALL COMPACT SIZE (4mm SQUARE)

- TOP AND UNDERSIDE ADJUST

ELECTRICAL

Resistance Range:	100R to 1M0
Resistance Values:	1, 2 & 5 in each decade
Resistance Tolerance:	± 25%
Resistance Law:	Linear
Temperature Coefficient of Resistance:	± 250ppm/°C between -25°C to + 85°C
Maximum Operating Voltage:	50 VDC or AC at RMS; Maximum
Resolution:	Essentially Infinite
Contact Resistance Variation:	5% of Nominal Value
Power Rating:	0.2W Maximum
Electrical Rotation:	260° ±20°

POWER DERATING CURVE



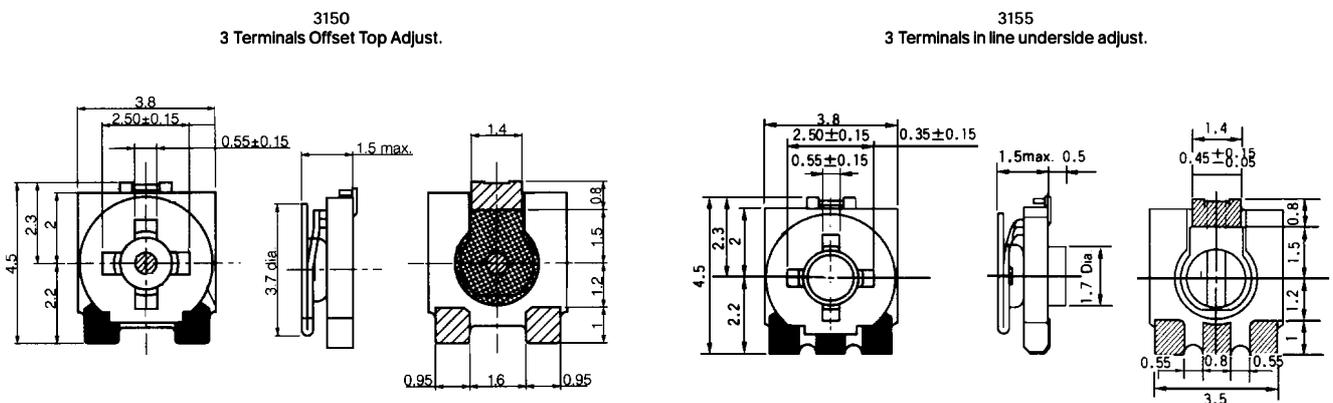
MECHANICAL

Rotation Torque:	20 - 250 gfcM
Weight:	0.2 grms
Terminal Strength:	Horizontal 1 Kgf Vertical 500 gf
Mechanical Rotation:	360° Continuous
Marking:	Resistance Value on Potentionmeter. Date Code on Reels

ENVIRONMENTAL

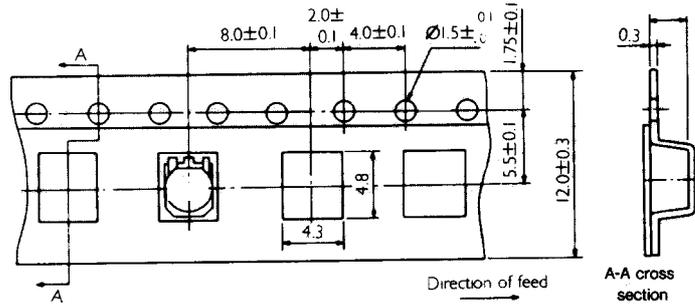
Temperature Range:	-20°C to +100°C
Temperature Storage:	-55°C to +100°C
Rotational Life:	20 Cycles Δ R ±15%
Load Life:	Δ R <5% after 1000 Hours @ 70°C
Soldering Heat:	230°C 10 seconds recommended 240°C 5 seconds recommended
Humidity Load Life:	Δ R ± 5% 1000 Hours at RH under load (40°C)
High Temperature:	Δ R ± 5% 1000 Hours at 70°C

DIMENSIONS

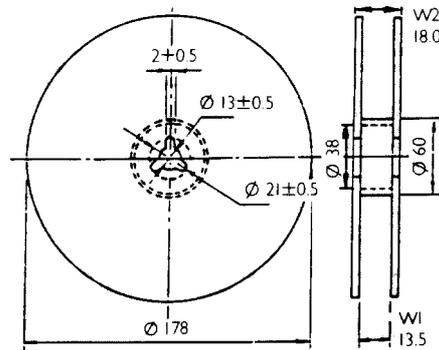


All Dimensions are in mm and nominal. Do Not Scale.

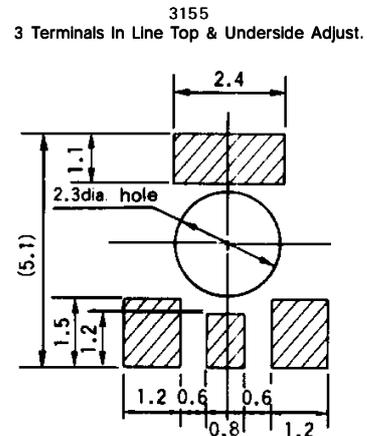
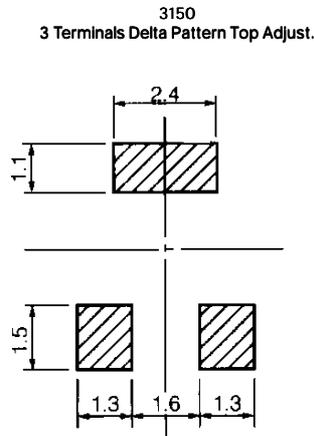
PACKAGING (TAPE)



PACKAGING (REEL)



RECOMMENDED PAD POSITION

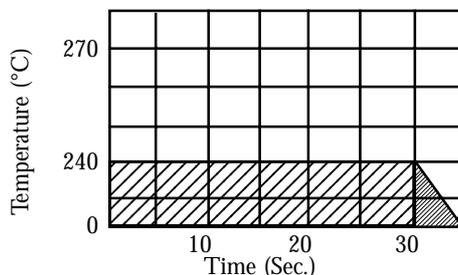
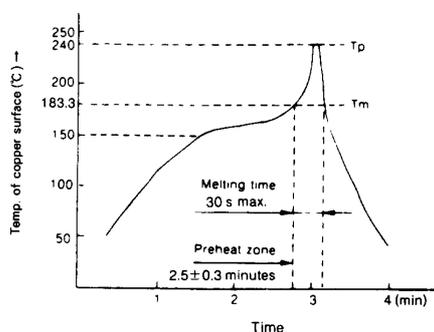


HOW TO ORDER

3150	W	502	P
COMMON PART	ORIENTATION	RESISTANCE VALUE	TOLERANCE
3150 - 3 Terminals offset top adjust 3155 - 3 terminals in line underside adjust	W - Terminals 1 and 3 towards the sprocket holes (Standard)	The first digits are significant figures of resistance value and the third one denotes the number of zeros following Example 500R : 501 5k : 502 50k : 503 500k : 504	P - ± 25%

SOLDERING CONDITIONS

If soldering is repeated, please note that the allowance time is the accumulated time.
Solder: Co-crystallized solder
Flux : Rosin flux

REFLOW SOLDERING -
NO PREHEATREFLOW SOLDERING
RECOMMENDED

SOLDERING WITH IRON

The following conditions must be strictly adhered to when using a soldering iron.
Soldering Iron: 20W Maximum
Tip Temperature: 280°C Maximum
Soldering Time: 5 Seconds Maximum

CLEANING CONDITIONS

After soldering, use solvents such as chlorosen or dyefreon. If cleaning with water wash, take special care to ensure trimmers are completely dry.

CAUTION ON SOLDERING

The following conditions must be strictly adhered to when using a soldering iron for rework:

Soldering Iron: 20 W Maximum.
Tip Temperature: 280°C Maximum (To be used only once).
Soldering Time: 3 Seconds Maximum.

Be careful not to apply excessive force to the potentiometer after mounting.
Reduce effects of solder temperature and time as much as possible by giving maximum possible pre-heating.

This product is not suitable for wave soldering.

STORAGE

To prevent damage to the electrode, be sure to observe the following storage conditions.

- Store in 40°C maximum ambient temperature, and 70% maximum ambient RH.
- For maximum possible shelf life do not disturb polythene sleeve until you are ready to use the potentiometers
- Store where there are no harmful gases containing sulphur or chlorine.



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